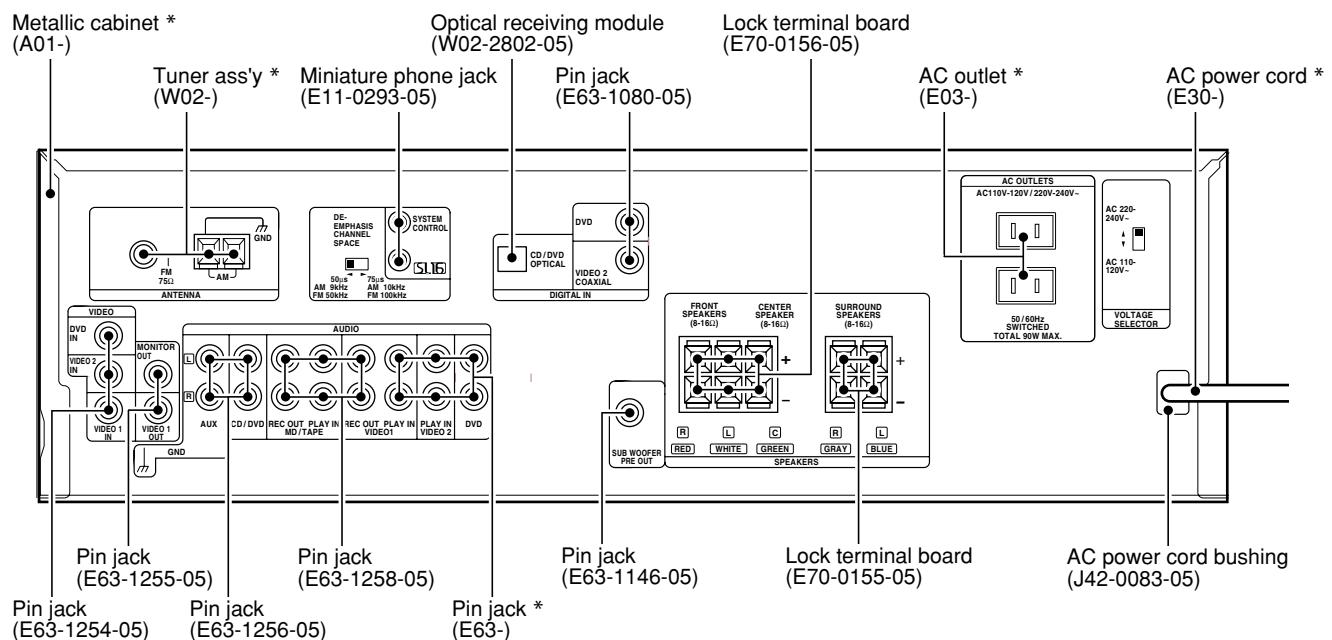
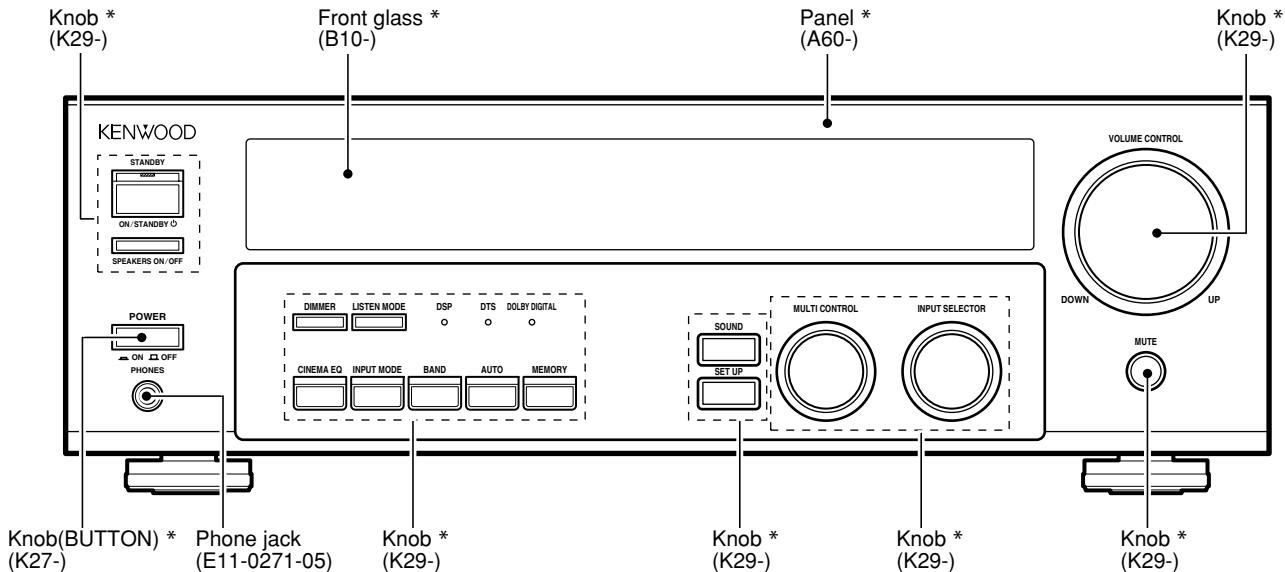


AUDIO-VIDEO SURROUND RECEIVER  
**KRF-V4060D/V4060DE/V4060DE-S/V4060D-S**  
**KRF-V5060D/V5060DE/V5060D-S/V5560D/V5560D-S**  
**VR-605/615**  
**SERVICE MANUAL**

**KENWOOD**

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Illust. is KRF-V4060D.

\* Refer to parts list on page 21.



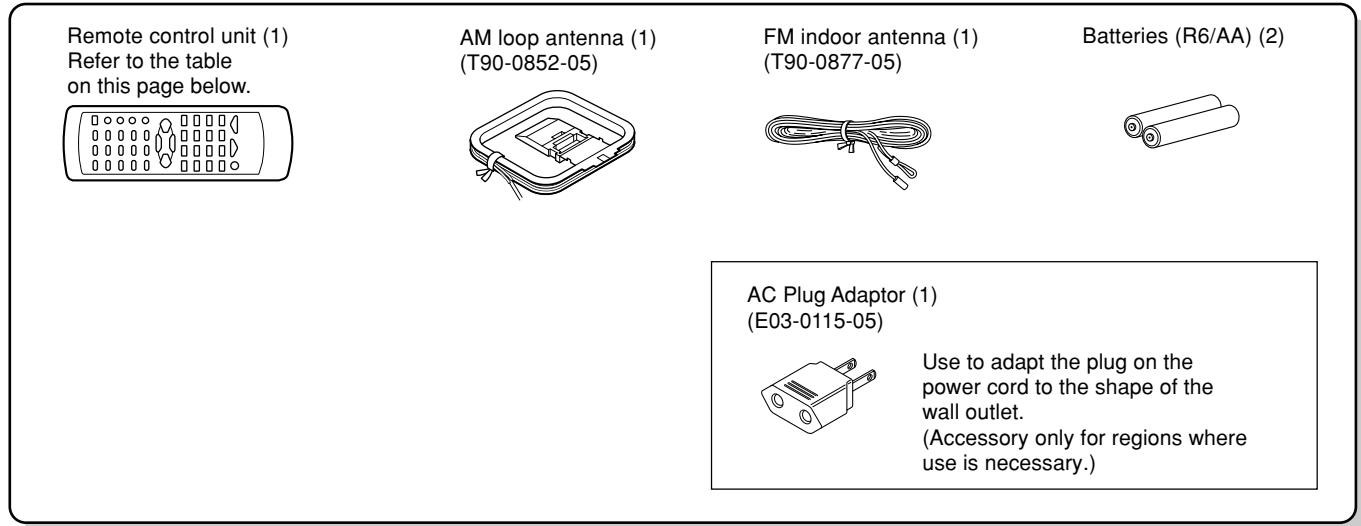
# KRF-V4060D/V5060D/V5560D/VR-605/615

## CONTENTS / ACCESSORIES / CAUTIONS

### Contents

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### Accessories



### REMOTE CONTROL vs MODEL

| MODEL         | PARTS #     | REMOTE CONTROL # | DESTINATION |
|---------------|-------------|------------------|-------------|
| KRF-V4060D    | A70-1566-05 | RC-R0623         | ET          |
| KRF-V4060DE   |             |                  | E1          |
| KRF-V4060DE-S |             |                  | E2          |
| KRF-V4060D-S  | A70-1564-05 | RC-R0621         | MX          |
| KRF-V4060D-S  | A70-1566-05 | RC-R0623         | E3T1        |
| KRF-V5060D    | A70-1563-05 | RC-R0620         | Y           |
| KRF-V5060D    | A70-1565-05 | RC-R0622         | ET          |
| KRF-V5060DE   |             |                  | E1          |

| MODEL        | PARTS #     | REMOTE CONTROL # | DESTINATION |
|--------------|-------------|------------------|-------------|
| KRF-V5060D-S | A70-1563-05 | RC-R0620         | MX          |
| KRF-V5060D-S | A70-1565-05 | RC-R0622         | E3T1        |
| KRF-V5560D   | A70-1564-05 | RC-R0621         | Y           |
| KRF-V5560D   | A70-1566-05 | RC-R0623         | E           |
| KRF-V5560D-S | A70-1564-05 | RC-R0621         | MXH         |
| KRF-V5560D-S | A70-1566-05 | RC-R0623         | E3T1        |
| VR-605       | A70-1564-05 | RC-R0621         | KP          |
| VR-615       | A70-1563-05 | RC-R0620         | KP          |

### Cautions

#### Resetting the Microcomputer

The microcomputer may malfunction (unit cannot be operated, or shows an erroneous display) if the power cord is unplugged while the power is ON, or due to some other external factor. If this happens, execute the following procedure to reset the microcomputer and return the unit to its normal operating condition.

- Please note that resetting the microcomputer will clear the contents of the memory and return the unit to the state it was in when it left the factory

#### For the U.S.A. and Canada

**Unplug the power cord from the wall outlet, then plug it back in while holding down the POWER key.**

#### For other countries

**With the power cord plugged in, turn the POWER key OFF. Then, while holding down the ON/STANDBY I/Ø key, press POWER.**

#### Memory back up function

Please note that the following items will be deleted from the unit's memory if the power cord is disconnected from the AC outlet for approximately 3 days.

- Power mode.
- Input selector settings.
- Picture output.
- Speaker ON/OFF.
- Volume level.
- BASS, TREBLE, INPUT level.
- Dimmer level.
- MD/TAPE settings.
- Listen mode setting.
- Speaker settings.
- SW RE-MIX ON/OFF.
- Distance setting.
- Input mode setting.
- Midnight mode setting.
- PRO LOGIC II mode setting.
- Broadcast band.
- Frequency setting.
- Preset stations.
- Tuning mode.
- CINEMA EQ ON/OFF.
- LOUDNESS ON/OFF.

# KRF-V4060D/V5060D/V5560D/VR-605/615

## CIRCUIT DESCRIPTION

### 1. Model & TUNER Destination

#### 1-1 Model Discrimination

|                     | DVD/6ch PHONO | DVD/6ch AUX | DVD AUX | F=80Hz | F=120Hz |
|---------------------|---------------|-------------|---------|--------|---------|
| Model TYPE 0(30Pin) | L             | L           | H       | -      | -       |
| Model TYPE 1(35Pin) | L             | H           | L       | -      | -       |
| CRS OVR CHK(80Pin)  | -             | -           | -       | L      | H       |

#### 1-2 TUNER Destination

| Set TYPE     | TYPE      | BAND  | Receiving Frequency Range | Channel Space | IF       | PLL   |
|--------------|-----------|---|---------------------------|---------------|----------|-------|
| K/P          | K1        | FM  | 87.50MHz~108.0MHz         | 100kHz        | +10.7MHz | 25kHz |
|              |           | AM  | 530kHz~1700kHz            | 10kHz         | +450kHz  | 10kHz |
| Y/M/I        | K2        | FM  | 87.50MHz~108.0MHz         | 100kHz        | +10.7MHz | 25kHz |
|              |           | AM  | 530kHz~1610kHz            | 10kHz         | +450kHz  | 10kHz |
| Y/M/V/X<br>H | E1        | FM  | 87.50MHz~108.0MHz         | 50kHz         | +10.7MHz | 25kHz |
|              |           | AM  | 531kHz~1602kHz            | 9kHz          | +450kHz  | 9kHz  |
| E/T          | E3<br>RDS | FM  | 87.50MHz~108.0MHz         | 50kHz         | +10.7MHz | 25kHz |
|              |           | AM  | 531kHz~1602kHz            | 9kHz          | +450kHz  | 9kHz  |
| Y/M          | M         | K2/E1 are decided by Tuner destination port 1 input.<br>(0 = K2 Type 1 = E1 Type) |                           |               |          |       |

### 2. Tuner Preset Memory

| P.ch | K1        | K2        | E1/E3     | P.ch | K1        | K2        | E1/E3     |
|------|-----------|-----------|-----------|------|-----------|-----------|-----------|
| 1    | FM 98.3M  | FM 98.3M  | FM 98.3M  | 21   | AM 530K   | AM 530K   | AM 531K   |
| 2    | FM 108.0M | FM 108.0M | FM 108.0M | 22   | FM 87.5M  | FM 87.5M  | FM 87.5M  |
| 3    | FM 89.1M  | FM 89.1M  | FM 89.1M  | 23   | FM 87.5M  | FM 87.5M  | FM 87.5M  |
| 4    | FM 87.5M  | FM 87.5M  | FM 87.5M  | 24   | FM 87.5M  | FM 87.5M  | FM 87.5M  |
| 5    | FM 90.0M  | FM 90.0M  | FM 90.0M  | 25   | FM 87.5M  | FM 87.5M  | FM 87.5M  |
| 6    | FM 87.5M  | FM 87.5M  | FM 87.5M  | 26   | FM 87.5M  | FM 87.5M  | FM 87.5M  |
| 7    | FM 87.5M  | FM 87.5M  | FM 87.5M  | 27   | FM 87.5M  | FM 87.5M  | FM 87.5M  |
| 8    | AM 1610K  | FM 87.5M  | AM 1503K  | 28   | FM 87.5M  | FM 87.5M  | FM 87.5M  |
| 9    | AM 1700K  | AM 1610K  | AM 1584K  | 29   | FM 87.5M  | FM 87.5M  | FM 87.5M  |
| 10   | AM 1000K  | AM 1000K  | AM 954K   | 30   | FM 106.0M | FM 106.0M | FM 106.0M |
| 11   | AM 630K   | AM 630K   | AM 621K   | 31   | FM 87.5M  | FM 87.5M  | FM 87.5M  |
| 12   | AM 1440K  | AM 1440K  | AM 1350K  | 32   | FM 87.5M  | FM 87.5M  | FM 87.5M  |
| 13   | FM 106.0M | FM 106.0M | FM 106.0M | 33   | FM 87.5M  | FM 87.5M  | FM 87.5M  |
| 14   | AM 530K   | AM 530K   | AM 531K   | 34   | FM 87.5M  | FM 87.5M  | FM 87.5M  |
| 15   | FM 87.5M  | FM 87.5M  | FM 87.5M  | 35   | FM 87.5M  | FM 87.5M  | FM 87.5M  |
| 16   | FM 98.0M  | FM 98.0M  | FM 98.0M  | 36   | FM 87.5M  | FM 87.5M  | FM 87.5M  |
| 17   | FM 98.5M  | FM 98.5M  | FM 98.5M  | 37   | FM 87.5M  | FM 87.5M  | FM 87.5M  |
| 18   | FM 87.5M  | FM 87.5M  | FM 87.5M  | 38   | FM 87.5M  | FM 87.5M  | FM 87.5M  |
| 19   | AM 990K   | AM 990K   | AM 945K   | 39   | FM 108.0M | FM 108.0M | FM 108.0M |
| 20   | FM 97.4M  | FM 97.4M  | FM 97.4M  | 40   | AM 1000K  | AM 1000K  | AM 945K   |

### 3. Test Mode

#### 3-1 Entering the Test Mode

- With the power cord plugged in, turn the POWER key OFF. Then while holding down the BAND key, press power key.

#### 3-2 Cancelling the Test Mode

- Initialized and cancel the test mode if pulling out the power code.

#### 3-3 Contents of the Test Mode

##### 3-3-1 Pch Call UP/DOWN

| Key         | Function                            |
|-------------|-------------------------------------|
| DIMMER      | Pch CALL UP<br>→01→02→03→…→39→40→   |
| LISTEN MODE | Pch CALL DOWN<br>←01←02←03←…←39←40← |

##### 3-3-2 TUNER mute on/off

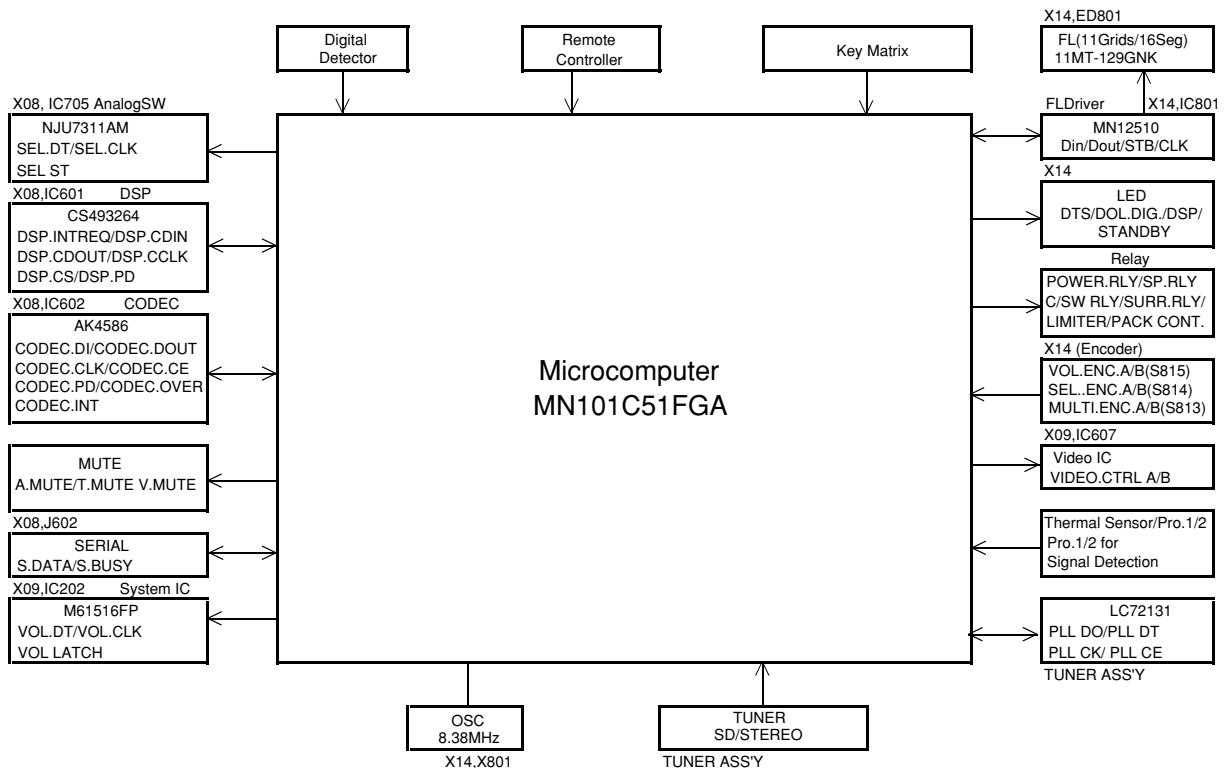
| Key  | Function          |
|------|-------------------|
| MUTE | TUNER mute on/off |

# KRF-V4060D/V5060D/V5560D/VR-605/615

## CIRCUIT DESCRIPTION

### 4. Microcomputer : MN101C51FGA (X14,IC804)

#### 4-1 Microcomputer Periphery Block Diagram



#### Key Matrix

|             | P34(30Pin) | P33(29Pin) | P32(28Pin) | P31(27Pin) |
|-------------|------------|------------|------------|------------|
| SEG1(32Pin) | AUTO       | MEMORY     | SOUND      | -          |
| SEG2(33Pin) | SET UP     | MUTE       | DIMMER     | SPK ON/OFF |
| SEG3(34Pin) | CINEMA EQ  | LISTEN     | INPUT      | -          |

#### 4-2 Pin Description of Microcomputer : MN101C51FGA(X14,IC804)

| Pin No. | Pin Name      | I/O | Description  |
|---------|---------------|-----|--|
| 1       | VREF-         | -   | Connected to ground.                                 |
| 2       | TH SENS       | I   | Protection signal detection port for thermal sensor. |
| 3       | S DETECTOR1   | I   | Protection for signal detection 1.                   |
| 4       | S DETECTOR2   | I   | Protection for signal detection 2.                   |
| 5       | S LEVEL       | I   | Detection port for RDS signal level.                 |
| 6       | AD KEY GET    | I   | A/D key input.                                       |
| 7       | AD TUNER DEST | I   | Discrimination port for tuner destination.           |
| 8       | PROT1         | I   | Protection signal detection port for over current.   |
| 9       | PROT2         | I   | Protection signal detection port for over voltage.   |
| 10      | VREF+         | -   | A/D reference voltage.                               |
| 11      | VDD           | -   | Power supply(+5V) for microcomputer.                 |
| 12      | OSC2          | O   | Main clock output(8.38MHz).                          |
| 13      | OSC1          | I   | Main clock input(8.38MHz).                           |
| 14      | VSS           | -   | Connected to ground.                                 |
| 15      | XI            | -   | Connected to ground.                                 |
| 16      | XO            | -   | Unused.  |
| 17      | MMOD          | -   | Connected to ground.                                 |
| 18      | DSP/CODEC DIN | O   | Data output to DSP/CODEC.                            |
| 19      | DSP/CODEC DO  | I   | Data input port from DSP/CODEC.                      |
| 20      | DSP/CODEC CLK | O   | Clock output to DSP/CODEC.                           |
| 21      | DSP CS        | -   | Chip select for DSP.                                 |
| 22      | DSP PD        | O   | Power down mode port for DSP.                        |
| 23      | CODEC PD      | O   | Power down mode port for CDDEC.                      |

# KRF-V4060D/V5060D/V5560D/VR-605/615

## CIRCUIT DESCRIPTION

| Pin No. | Pin Name     | I/O | Description  |
|---------|--------------|-----|--|
| 24      | CODEC OVER   | I   | Overflow detection port for CODEC analog signal.               |
| 25      | RESET        | I   | Reset signal input for microcomputer.                          |
| 26      | CODEC CSN    | O   | Chip select for CODEC.   |
| 27      | RDS DATA     | O   | RDS signal data output.  |
| 28      | S BUSY       | I/O | Serial busy signal input/output.                               |
| 29      | S DATA       | I/O | Serial data signal input/output.                               |
| 30      | MODEL TYPE0  | I   | Discrimination port for model type.                            |
| 31      | REMOCON      | I   | Signal input for remote controller.                            |
| 32      | CODEC INT    | I   | Detection port for digital signal error.                       |
| 33      | RDS CLK      | I   | Clock input for RDS demodulator IC.                            |
| 34      | DSP INTREQ   | I   | Detection port for DSP INTREQ.                                 |
| 35      | MODEL TYPE1  | I   | Discrimination port for model type.                            |
| 36      | FL DIN       | O   | Data output to FL driver.                                      |
| 37      | FL DOUT      | I   | Data input from FL driver.                                     |
| 38      | FL CLK       | O   | Clock output to FL driver.                                     |
| 39      | FL STB       | O   | Strobe output to FL driver.                                    |
| 40      | PLL DATA     | O   | Data output to PLL IC.   |
| 41      | PLL CLK      | O   | Clock output to PLL IC.  |
| 42,43   | NC           | -   | Unused.  |
| 44      | PLL CE       | O   | Chip enable output to PLL IC.                                  |
| 45      | PLL DO       | I   | Data input from PLL IC.  |
| 46      | T MUTE       | O   | Mute signal output to PLL IC.                                  |
| 47      | STEREO       | I   | Stereo signal input from PLL IC.                               |
| 48      | PLL SD       | I   | SD signal input from PLL IC.                                   |
| 49      | MULTI ENCA   | I   | Encoder (X14, S813) signal input.                              |
| 50      | MULTI ENCB   | I   | Encoder (X14, S813) signal input.                              |
| 51      | SEL ENCA     | I   | Encoder (X14,S814) signal input.                               |
| 52      | SEL ENCB     | I   | Encoder (X14,S814) signal input.                               |
| 53      | VOL. ENCA    | I   | Encoder (X14,S815) signal input.                               |
| 54      | VOL.ENCB     | I   | Encoder (X14,S815) signal input.                               |
| 55      | CH SPACE     | I   | Discrimination port for channel space.                         |
| 56      | SP RLY       | O   | Control port for speaker relay.                                |
| 57      | C/SW RELAY   | O   | Relay control for center and sub woofer speakers.              |
| 58      | SURR.RLY     | O   | Relay control for surround speaker.                            |
| 59      | PWR RLY      | O   | Control port for power relay.                                  |
| 60      | PACK CONT.   | O   | Power pack control.  |
| 61      | V. MUTE      | O   | Mute control for video output.                                 |
| 62      | LIMITER      | O   | Power control for A class.                                     |
| 63      | A. MUTE      | O   | Mute control for audio output.                                 |
| 64      | SEL DATA     | O   | Data output to analog switch IC(X08,IC705).                    |
| 65      | SEL. CLK     | O   | Clock output to analog switch IC(X08,IC705).                   |
| 66      | SEL. STB     | O   | Strobe output to analog switch IC(X08,IC705).                  |
| 67      | VIDEO CTRL A | O   | Video switch control.  |
| 68      | VIDEO CTRL B | O   | Video switch control.  |
| 69      | -6 ATT       | O   | -6dB attenuator control.                                       |
| 70      | VOL. DATA    | O   | Data output to system IC (X09,IC202).                          |
| 71      | VOL. CLK     | O   | Clock output to system IC (X09,IC202).                         |
| 72      | VOL. LATCH   | O   | Latch output to system IC (X09,IC202).                         |
| 73      | STANDBY LED  | O   | Control port for STANDBY LED(X14,D808).                        |
| 74      | DTS LED      | O   | Control port for DTS LED(X14,D807).                            |
| 75      | DOL DIG LED  | O   | Control port for DOLBY DIG LED(X14,D806).                      |
| 76      | DSP LED      | O   | Control port for DSP LED(X14,D805).                            |
| 77      | CE2          | I   | Detection port of chip enable 2 for microcomputer.             |
| 78      | CE1          | I   | Detection port of chip enable 1 for microcomputer.             |
| 79      | DEGITAL DET  | I   | Detection port for digital signal.                             |
| 80      | CRS OVR CHK  | I   | Selection of cut-off frequency for HPF/LPF. L : 80Hz H : 120Hz |

# KRF-V4060D/V5060D/V5560D/VR-605/615

## CIRCUIT DESCRIPTION

### 5. Pin Description of ICs.

#### 5-1 CODEC : AK4586(X08, IC602)

| Pin No. | Pin Name   | I/O | Description                                      |
|---------|------------|-----|--|
| 1       | XTO        | -   | Unused.  |
| 2       | XTI/EXTCLK | I   | External clock input (12.268MHz).                |
| 3       | DVDD       | -   | Digital power supply (+5.0V).                    |
| 4       | DVSS       | -   | Digital GND.                                     |
| 5       | TVDD       | -   | Power supply for buffer (+3.3V).                 |
| 6       | TX         | -   | Unused.  |
| 7       | MCKO       | O   | Master clock pin.                                |
| 8       | LRCK       | I   | Clock input pin.                                 |
| 9       | BICK       | I   | Bit clock pin for audio serial data.             |
| 10      | SDTO       | O   | Output pin for audio serial data.                |
| 11~13   | SDTI (1~3) | I   | Input pin of audio serial data for DAC.          |
| 14      | INT0       | O   | Output pin for digital signal error.             |
| 15      | INT1       | -   | Unused.  |
| 16      | CAD1/CDTO  | I   | Control data input.                              |
| 17      | SDACDTI    | I   | Control data input.                              |
| 18      | SCL/CCLK   | I   | Clock input.                                     |
| 19      | CAD0/CSN   | I   | Chip select.                                     |
| 20      | DZF2/OVR   | O   | Overflow detection port for CODEC analog signal. |
| 21      | AVSS       | -   | Analog GND.                                      |
| 22      | AVDD       | -   | Analog power supply (+5.0V).                     |
| 23      | VREFH      | I   | Reference voltage input.                         |
| 24      | VCOM       | O   | Output pin for common voltage.                   |
| 25      | DZF1       | -   | Zero input detection 1 pin (Unused).             |
| 26      | C OUT      | O   | DAC Center channel output.                       |
| 27      | SW OUT     | O   | DAC SW channel output.                           |
| 28      | SL OUT     | O   | DAC SL channel output.                           |
| 29      | SR OUT     | O   | DAC SR channel output.                           |
| 30      | FL OUT     | O   | DAC FL channel output.                           |
| 31      | FR OUT     | O   | DAC FR channel output.                           |
| 32      | LIN        | I   | L channel analog (+) input.                      |
| 33      | RIN        | I   | R channel analog (+) input.                      |
| 34      | PVDD       | -   | Power supply (+5.0V).                            |
| 35      | R          | -   | Unused.  |
| 36      | PVSS       | -   | GND  |
| 37      | RX4        | I   | Unused.  |
| 38      | SLAVE      | -   | GND  |
| 39      | RX3        | I   | Optical input.                                   |
| 40      | TST        | -   | Clock select 2 pin (GND).                        |
| 41      | RX2        | I   | VIDEO2 (COAX IN) input.                          |
| 42      | I2C        | I   | Control select pin (Unused).                     |
| 43      | RX1        | I   | DVD (COAX IN) input.                             |
| 44      | PDN        | I   | CODEC power down.                                |

# KRF-V4060D/V5060D/V5560D/VR-605/615

## CIRCUIT DESCRIPTION

### 5-2 FL Driver : MN12510 (X14, IC801)

| Pin No. | Pin Name | I/O | Description                     |
|---------|----------|-----|---------------------------------|
| 1       | P21,P20  | O   | Segment 1,2 output.             |
| 3       | P03      | O   | Unused.                         |
| 4~6     | P02~P00  | O   | Grid (1~3) output.              |
| 7~10    | DGT(7~4) | O   | Grid (4~7) output.              |
| 11      | NC       | -   | Unused.                         |
| 12~15   | DGT(3~0) | O   | Grid (8~10) output.             |
| 16      | VPP      | -   | Power supply (-30V).            |
| 17      | NC       | -   | Unused.                         |
| 18      | VDD      | -   | Power supply (+5V).             |
| 19      | OSC1     | -   | Crystal (4MHz) connection port. |
| 20      | OSC2     | -   | Crystal (4MHz) connection port. |
| 21      | VSS      | -   | GND                             |
| 22      | NCS      | I   | Strobe input.                   |
| 23      | SCK      | I   | Clock input.                    |
| 24      | SDI      | I   | Data input.                     |
| 25      | SDO      | O   | Data output.                    |
| 26      | P30      | -   | Unused.                         |
| 27~30   | P(31~34) | I   | Key return signal input.        |
| 31      | SEG0     | O   | Segment (S16) output.           |
| 32      | SEG1     | O   | Segment (S15)/key scan output.  |
| 33      | SEG2     | O   | Segment (S14)/key scan output.  |
| 34      | SEG3     | O   | Segment (S13)/key scan output.  |
| 35~38   | SEG(4~7) | O   | Segment (S12~S9) output.        |
| 39~42   | P(10~13) | O   | Segment (S8~S5) output.         |
| 43,44   | P23,P24  | O   | Segment (S4,S3) output.         |

### 5-3 Power Amplifier

#### 5-3-1 Front/Center Amp : STK443(X09,IC301) KRF-V4060D/V5060D/VR-605

| Pin No. | Pin Name | Description                                |
|---------|----------|--|
| 1       | +VCC     | Connection port for power supply (+B).     |
| 2       | -VCC     | Connection port for power supply (-B).     |
| 3       | SUB GND  | GND  |
| 4       | +RE/CH1  | FR ch (+) output.                          |
| 5       | -RE/CH1  | FR ch (-) output.                          |
| 6       | -RE/CH2  | FL ch (-) output.                          |
| 7       | +RE/CH2  | FL ch (+) output.                          |
| 8       | -PRE     | Connection port for pre power supply (-B). |
| 9       | +PRE     | Connection port for pre power supply (+B). |
| 10      | IN/CH1   | FR ch input.                               |
| 11      | NF/CH1   | FR ch feedback.                            |
| 12      | BIAS     | Bias connection port.                      |
| 13      | NF/CH2   | FL ch feedback.                            |
| 14      | IN/CH2   | FL ch input.                               |
| 15      | IN/CH3   | Center ch input.                           |
| 16      | NF/CH3   | Center ch feedback.                        |
| 17      | +RE/CH3  | Center ch (+) output.                      |
| 18      | -RE/CH3  | Center ch (-) output.                      |

# KRF-V4060D/V5060D/V5560D/VR-605/615

## CIRCUIT DESCRIPTION

### 5-3-2 Surround Amp : STK442(X09,IC401) KRF-V4060D/V5060D/VR-605

| Pin No. | Pin Name | Description                                |
|---------|----------|--|
| 1       | +VCC     | Connection port for power supply (+B).     |
| 2       | -VCC     | Connection port for power supply (-B).     |
| 3       | SUB GND  | GND  |
| 4       | +RE/CH1  | Surround R ch (+) output.                  |
| 5       | -RE/CH1  | Surround R ch (-) output.                  |
| 6       | -RE/CH2  | Surround L ch (-) output.                  |
| 7       | +RE/CH2  | Surround L ch (+) output.                  |
| 8       | -PRE     | Connection port for pre power supply (-B). |
| 9       | +PRE     | Connection port for pre power supply (+B). |
| 10      | IN/CH1   | Surround Rch input.                        |
| 11      | NF/CH1   | Surround R ch feedback.                    |
| 12      | BIAS     | Bias connection port.                      |
| 13      | NF/CH2   | Surround L ch feedback.                    |
| 14      | IN/CH2   | Surround Lch input.                        |

### 5-3-3 Front/Center Amp : STK413(X09,IC301) KRF-V5560D/VR-615

| Pin No. | Pin Name | Description                                 |
|---------|----------|---|
| 1       | +VH      | Connection port for high power supply (+B). |
| 2       | +VL      | Connection port for low power supply (+B).  |
| 3       | +REF     | Connection port for reference voltage (+B). |
| 4       | -REF     | Connection port for reference voltage (-B). |
| 5       | -VL      | Connection port for low power supply (-B).  |
| 6       | -VH      | Connection port for high power supply (-B). |
| 7       | SUB GND  | GND   |
| 8       | +RE/CH1  | FR ch (+) output.                           |
| 9       | -RE/CH1  | FR ch (-) output.                           |
| 10      | -RE/CH2  | FL ch (-) output.                           |
| 11      | +RE/CH2  | FL ch (+) output.                           |
| 12      | -PRE     | Connection port for pre power supply (-B).  |
| 13      | +PRE     | Connection port for pre power supply (+B).  |
| 14      | IN/CH1   | FR ch input.                                |
| 15      | NF/CH1   | FR ch feedback.                             |
| 16      | BIAS     | Bias connection port.                       |
| 17      | NF/CH2   | FL ch feedback.                             |
| 18      | IN/CH2   | FL ch input.                                |
| 19      | IN/CH3   | Center ch input.                            |
| 20      | NF/CH3   | Center ch feedback.                         |
| 21      | +RE/CH3  | Center ch (+) output.                       |
| 22      | -RE/CH3  | Center ch (-) output.                       |

### 5-3-4 Surround/S.W Amp : STK413(X09,IC401) KRF-V5560D/VR-615

| Pin No. | Pin Name | Description                                 |
|---------|----------|---|
| 1       | +VH      | Connection port for high power supply (+B). |
| 2       | +VL      | Connection port for low power supply (+B).  |
| 3       | +REF     | Connection port for reference voltage (+B). |
| 4       | -REF     | Connection port for reference voltage (-B). |
| 5       | -VL      | Connection port for low power supply (-B).  |
| 6       | -VH      | Connection port for high power supply (-B). |
| 7       | SUB GND  | GND   |
| 8       | +RE/CH1  | Surround R ch (+) output.                   |
| 9       | -RE/CH1  | Surround R ch (-) output.                   |
| 10      | -RE/CH2  | Surround L ch (-) output.                   |
| 11      | +RE/CH2  | Surround L ch (+) output.                   |
| 12      | -PRE     | Connection port for pre power supply (-B).  |
| 13      | +PRE     | Connection port for pre power supply (+B).  |

# KRF-V4060D/V5060D/V5560D/VR-605/615

## CIRCUIT DESCRIPTION

| Pin No. | Pin Name | Description             |
|---------|----------|-------------------------|
| 14      | IN/CH1   | Surround R ch input.    |
| 15      | NF/CH1   | Surround R ch feedback. |
| 16      | BIAS     | Bias connection port.   |
| 17      | NF/CH2   | Surround L ch feedback. |
| 18      | IN/CH2   | Surround L ch input.    |
| 19      | IN/CH3   | Surround ch input.      |
| 20      | NF/CH3   | Surround ch feedback.   |
| 21      | +RE/CH3  | Surround ch (+) output. |
| 22      | -RE/CH3  | Surround ch (-) output. |

5-4 Digital Audio Decoder: CS493264(X08,IC601)

| Pin No.       | Pin Name     | I/O | Description   |
|---------------|--------------|-----|---|
| 1,12,23       | VD(1~3)      | -   | Digital power supply (+3.3V).                         |
| 2,13,24       | DGND(1~3)    | -   | Digital GND.  |
| 3             | XMT958       | 0   | SPDIF transmitter output (Open).                      |
| 4             | WR GP1010    | I/O | Host write strobe.                                    |
| 5             | RD EMOE      | I/O | Read/write enable.                                    |
| 6             | SCDIN        | 1   | SPI serial control data.                              |
| 7             | SCCLK        | I   | Serial control clock.                                 |
| 8~11<br>14~17 | EMA(D7~D0)   | I/O | Data bit (7~0).                                       |
| 18            | CS           | I   | Chip select.  |
| 19            | SCDI0        | I/O | Serial control data input/output.                     |
| 20            | INTREQ ABOOT | I/O | Control port interrupt request/automatic boot enable. |
| 21            | EXTMEM       | I/O | External memory chip select.                          |
| 22            | SDATAN       | I   | PCM audio data input.                                 |
| 25            | SCLKN        | I/O | PCM audio input bit clock.                            |
| 26            | SLRCLKN      | I/O | PCM audio input sample rate clock.                    |
| 27            | CMPDAT       | I   | PCM audio data input2.                                |
| 28            | CMPCLK       | I/O | PCM audio input bit clock.                            |
| 29            | CMPREQ       | I/O | PCM audio input sample rate clock.                    |
| 30            | CLKIN        | I   | Master clock input.                                   |
| 31            | CLKSEL       | I   | DSP clock select.                                     |
| 32            | FLT2         | -   | Phase lock loop filter.                               |
| 33            | FLT1         | -   | Phase lock loop filter.                               |
| 34            | VA           | -   | Analog power supply (+3.3V).                          |
| 35            | AGND         | -   | Analog GND.   |
| 36            | RESET        | I   | Master reset port.                                    |
| 37            | DD           | I/O | Pull-up port.   |
| 38            | DC           | I   | Pull-up port.   |
| 39~41         | AUDAT(2~0)   | O   | Digital audio output (2~0).                           |
| 42            | LRCLK        | I/O | Audio output sample rate clock.                       |
| 43            | SCLK         | I/O | Audio output bit clock.                               |
| 44            | MCLK         | I/O | Audio master clock.                                   |

## **PC BOARD (Component side view)**

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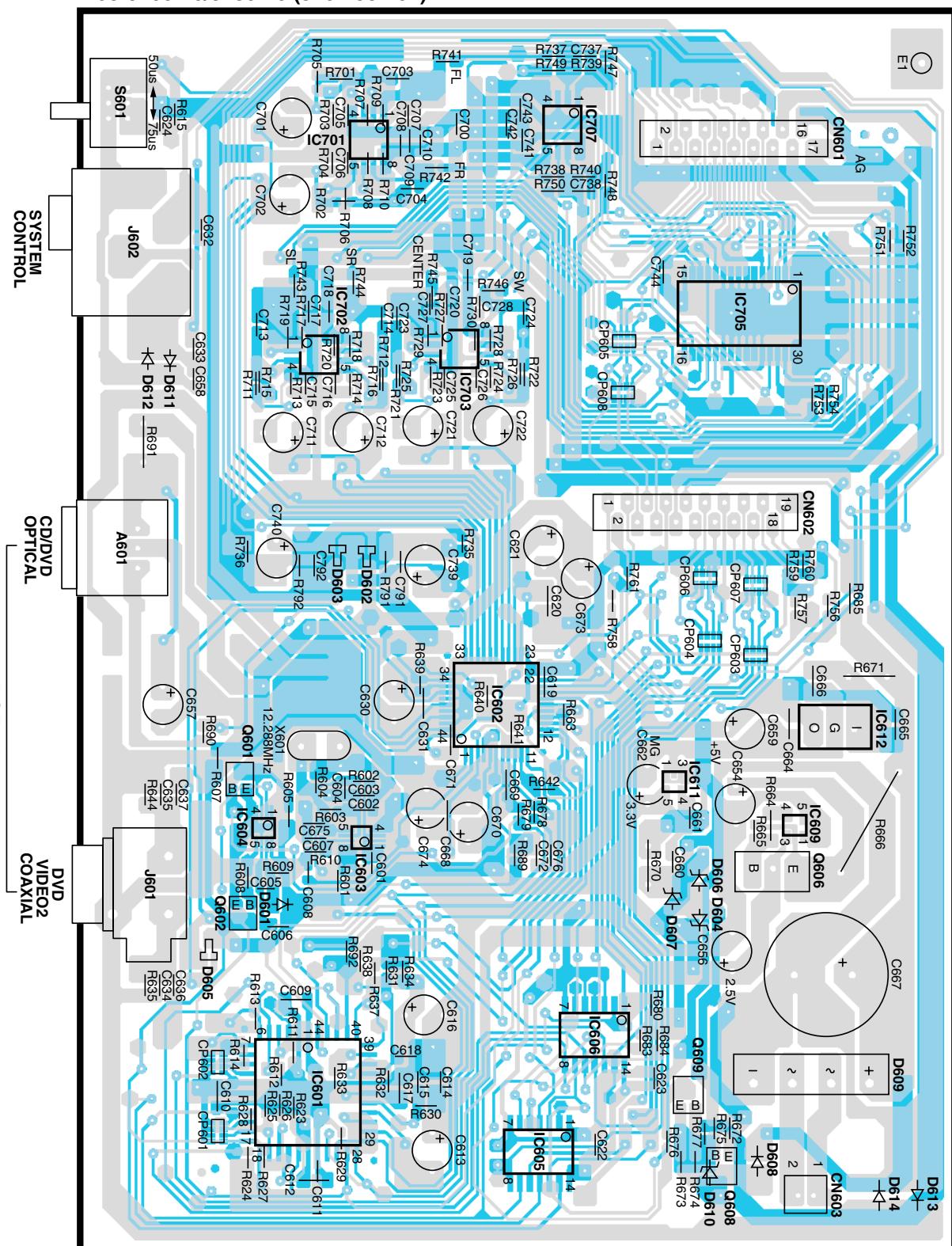
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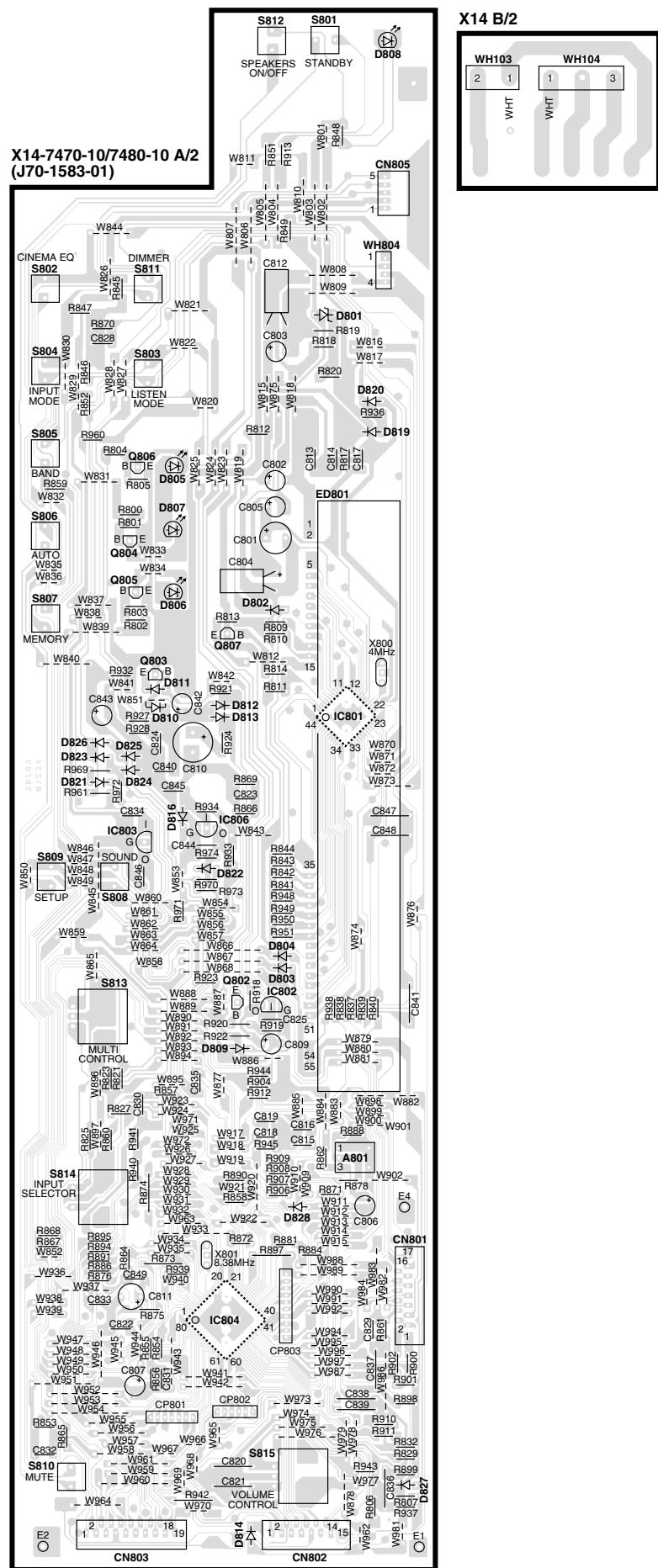
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X08-3160-10/3180-10 (J70-1581-01)



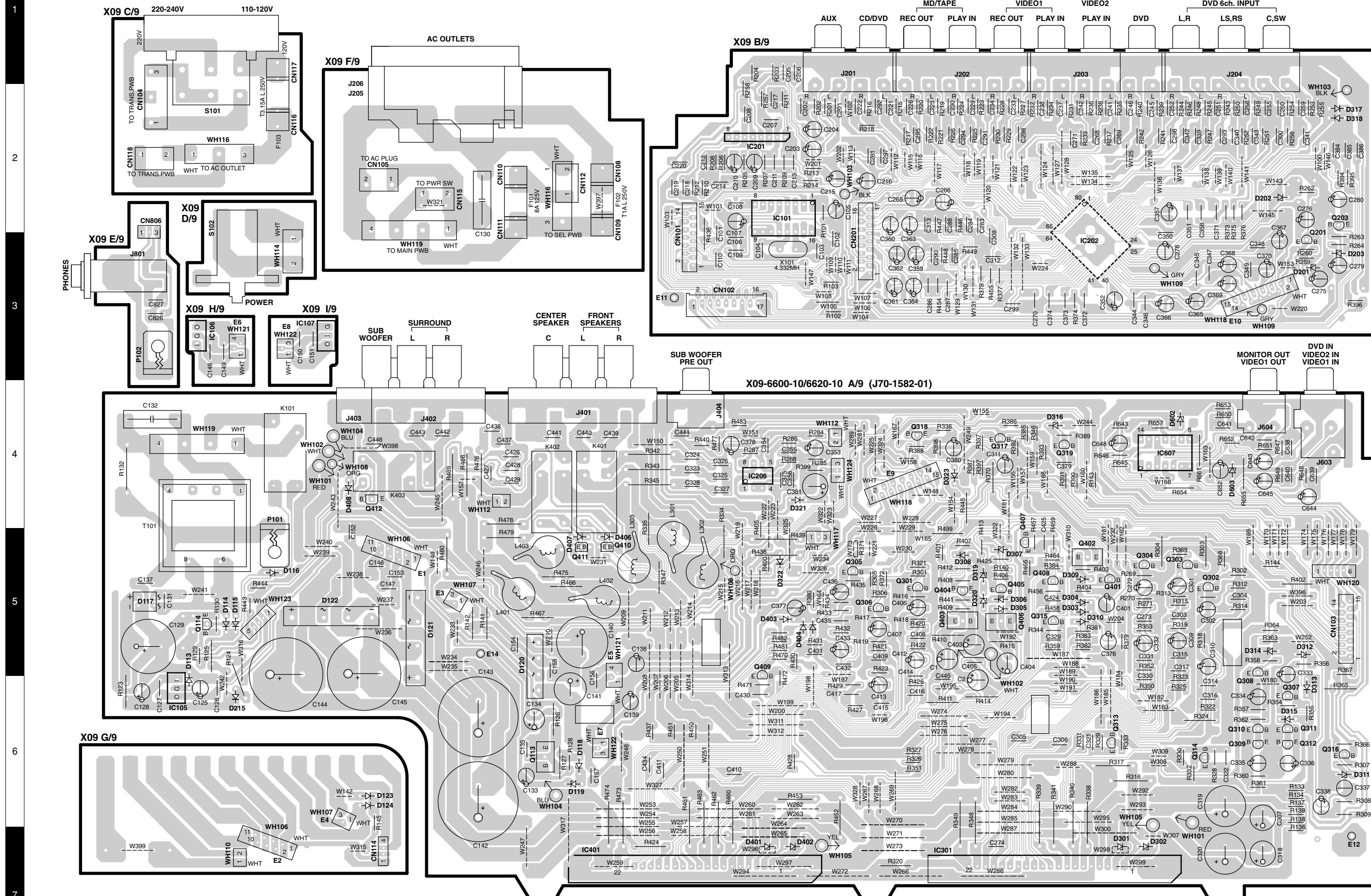
Refer to the schematic diagram for the value of resistors and capacitors.

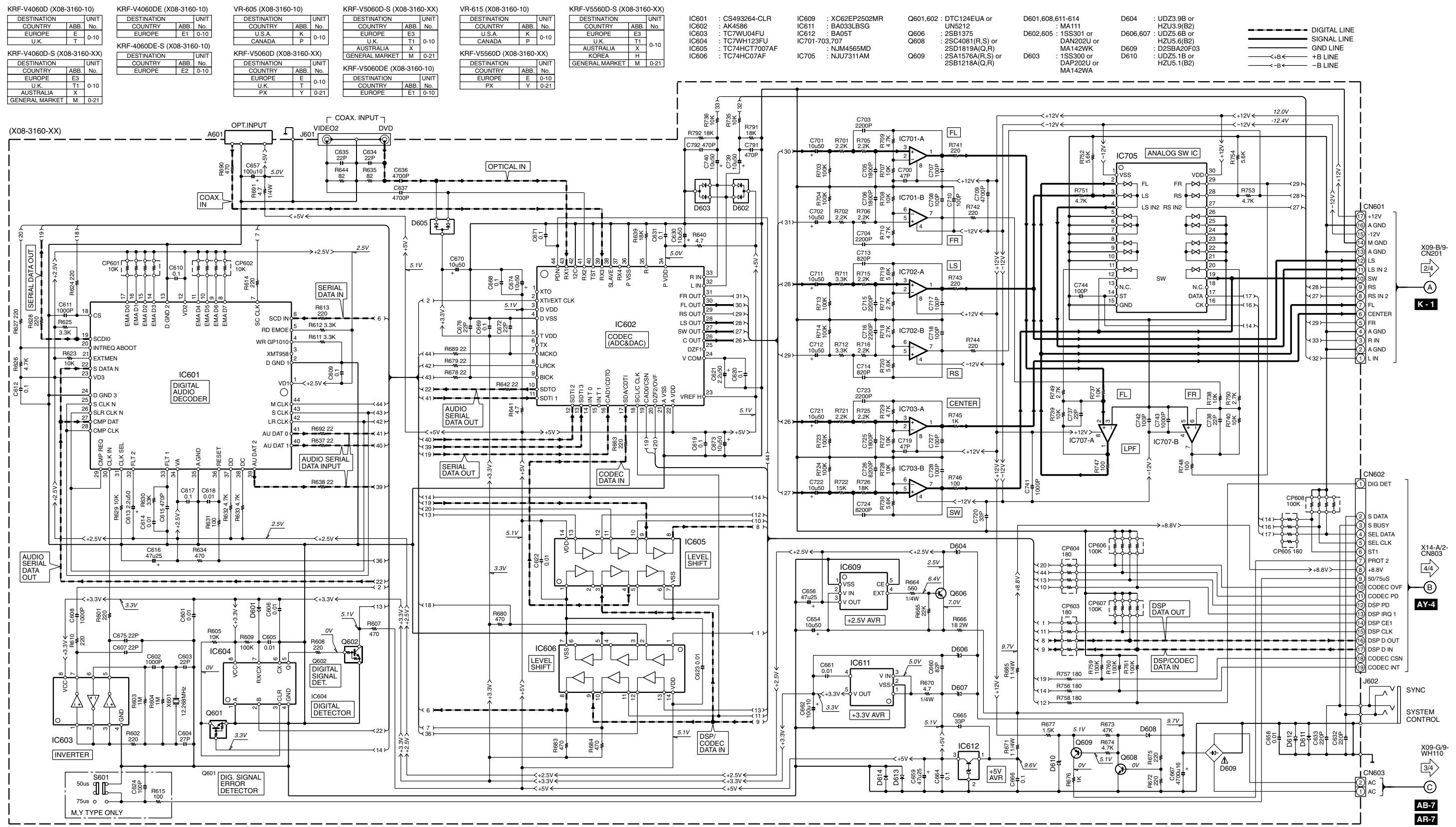
## **PC BOARD (Component side view)**



Refer to the schematic diagram for the value of resistors and capacitors.

# PC BOARD (Component side view)



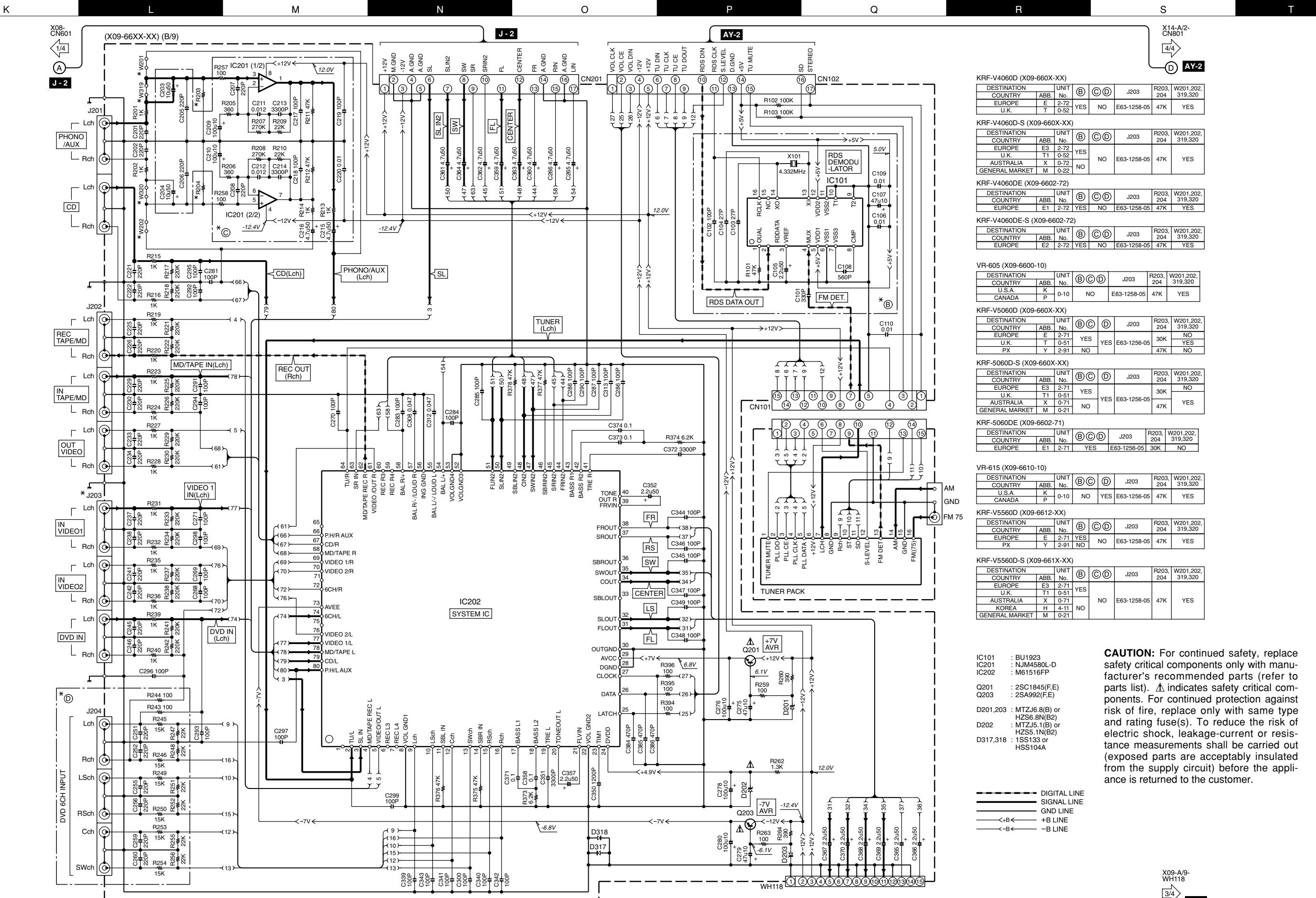


**CAUTION:** For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

The DC voltage is an actual reading measured with a high impedance type voltmeter with a cassette loaded at playback mode. The measurement value may vary depending on the measuring instruments used or on the product. Bias circuit DC voltage is measured while in the record mode.

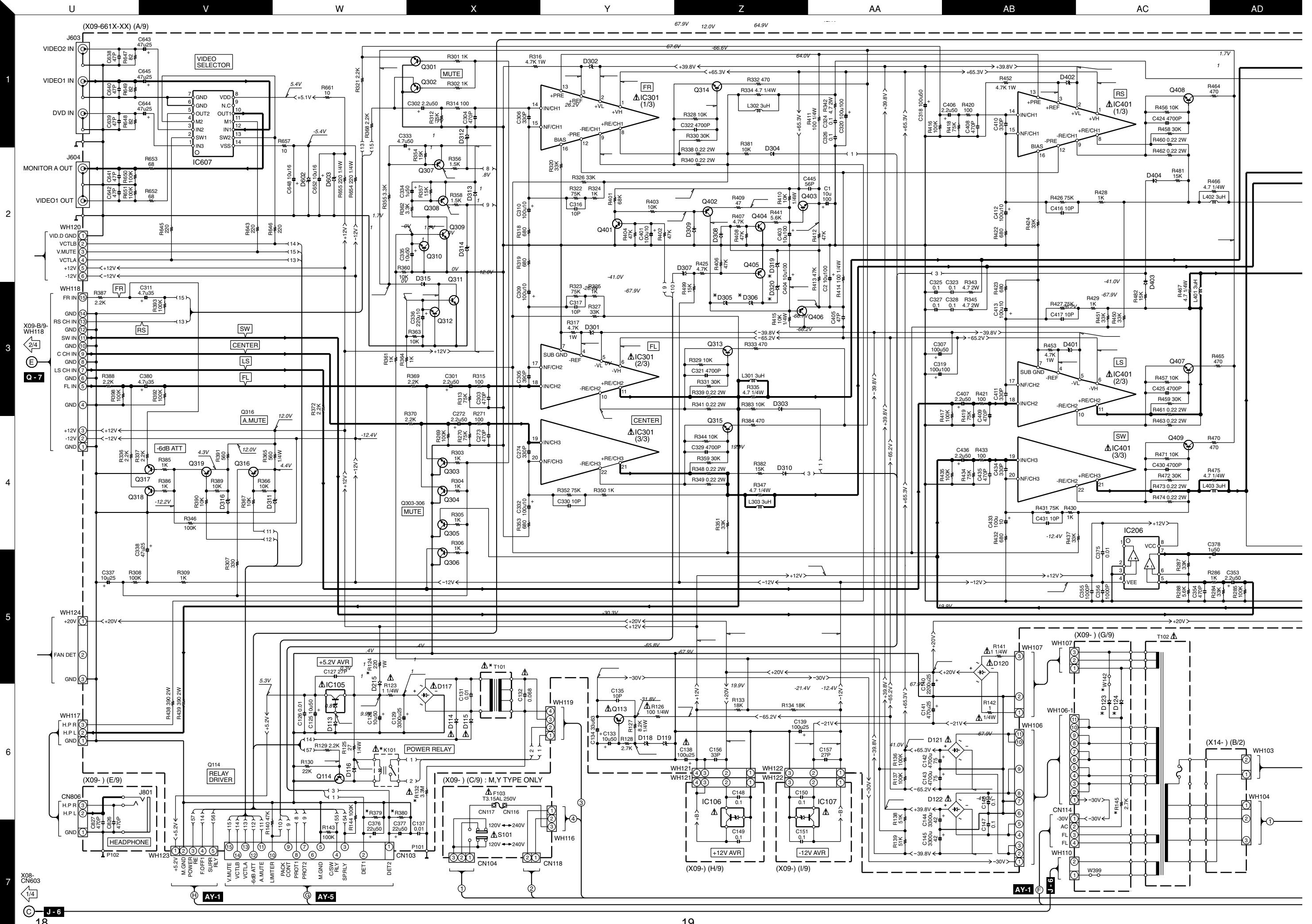
KRF-V4060D/V5060D/V5560D/VR-605/615

KENWOOD



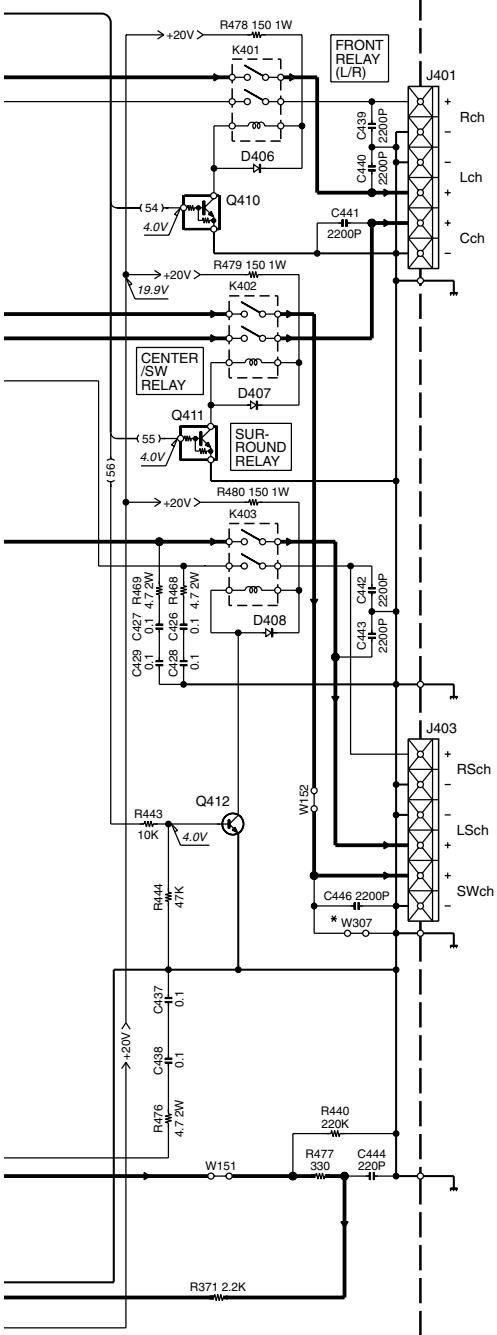
| MODE | CARRIER      | MODULATION |                              |           | ANT INPUT |
|------|--------------|------------|------------------------------|-----------|-----------|
|      |              | FREQUENCY  | DEVIATION                    | AMPLITUDE |           |
| FM   | 98MHz        | 1kHz       | STEREO 67.5kHz 7.5kHz(Pilot) | 60dB      |           |
| AM   | 1000(999)kHz | 400Hz      | MONO 30% MOD                 | 60dB      |           |

The DC voltage is an actual reading measured with a high impedance type voltmeter as the AM/FM signal generator is specified to the conditions as shown in the list below. The measurement value may vary depending on the measuring instruments used or on the product. The value shown in ( ) is actual reading measured in the AM mode.



(X09-661x-xx) (A/9)

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VR-615 (X09-6610-10) DESTINATION

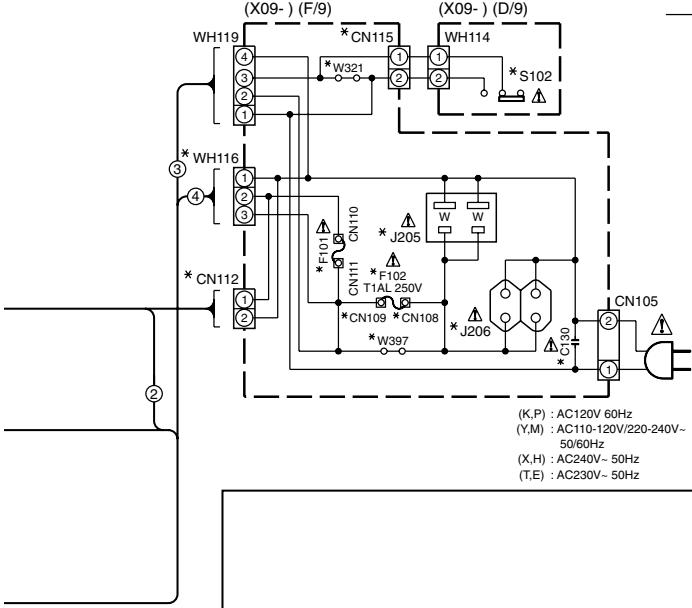
| KRF-V5660D (X09-06612-XX) |      |       |         |      |      |      |                        |                        |                        |      |             |      |                            |             |      |      |      |                        |
|---------------------------|------|-------|---------|------|------|------|------------------------|------------------------|------------------------|------|-------------|------|----------------------------|-------------|------|------|------|------------------------|
| DESTINATION COUNTRY       | UNIT | ABBR. | No.     | C130 | C115 | D123 | D305                   | D319                   | D320                   | F101 | J205        | K101 | R124                       | R132        | R379 | S102 | T101 | W142                   |
| EUROPE                    | E    | 2-71  | 6800P   | YES  | NO   | NO   | MTZ110(B) or HZS11N(B) | MTZ111(B) or HZS11N(B) | MTZ115(B) or HZS11N(B) | YES  | NO          | NO   | EO3-0149-05                | S76-0102-05 | NO   | NO   | 1.5K | L07-27-05 or L07-27-05 |
| PX                        | Y    | 2.91  |         | NO   | YES  | NO   | MTZ110(B) or HZS11N(B) | MTZ111(B) or HZS11N(B) | MTZ115(B) or HZS11N(B) | NO   | EO3-0148-05 | NO   | YES                        | NO          | NO   | NO   | 1.2K | L07-28-05              |
| U.S.A.                    | K    | 0-10  | 016800P | NO   | YES  | NO   | MTZ111(B) or HZS11N(B) | MTZ115(B) or HZS11N(B) | MTZ115(B) or HZS11N(B) | NO   | S76-0098-05 | YES  | NO                         | 1.2K        | NO   | NO   | NO   | NO                     |
| CANADA                    | P    | 6800P |         |      |      |      |                        |                        |                        |      |             |      | LOT-2758-05 or LOT-2761-05 |             |      |      |      | YES                    |

| KTH-75360D-S (X9-367-X-X) |      |      |       |       |       |      |      |      |      |             |             |
|---------------------------|------|------|-------|-------|-------|------|------|------|------|-------------|-------------|
| DESTINATION               | UNIT | C130 | CN108 | CN112 | CN115 | D123 | D305 | D319 | D320 | F101        | F102        |
| EUROPE                    | E3   | No   |       |       |       |      |      |      |      | E03/0149/05 | E03/0149/05 |
| U.K.                      | X    | 0-51 |       |       |       |      |      |      |      | E03/0150/05 | E03/0150/05 |
| AUSTRALIA                 | X    | 0-71 | 6800P | YES   | NO    |      |      |      |      | E03/025-05  | E03/025-05  |
| GENERAL MARKET            | W    |      |       |       |       |      |      |      |      | S76/0102/05 | S76/0102/05 |
| KOREA                     | H    | 4-11 |       | NO    | YES   |      |      |      |      | E03/0149/05 | E03/0149/05 |

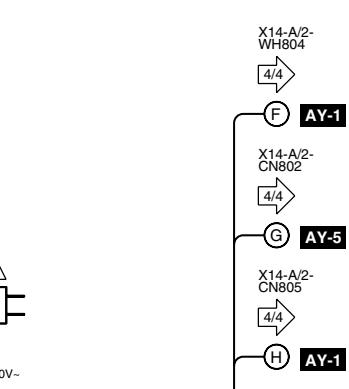
|  |                                    |
|--|------------------------------------|
| IC105  | : BA05T                            |
| IC106  | : KIA7812API                       |
| IC107  | : KIA7912PI                        |
| IC206  | : NJM4565D                         |
| IC301,401  | : STK413-220A or<br>STK413-020A    |
| IC607  | : NJM2279D                         |
| Q113,406   | : 2SB1640                          |
| Q114,412   | : 2SC1740S(Q,R) or<br>2SC2785(F,E) |
| Q301-306,317,318   | : 2SC287B(B)                       |
| Q307,308,316,319,405   | : 2SA992(F,E)                      |
| Q309-315,401,404,<br>407-409   | : 2SC1845(F,E)                     |
| Q402   | : 2SA1535A                         |
| Q403   | : 2SC3944A                         |
| Q410,411   | : UN4219 or<br>DTC113ZSA           |
| D113   | : RB441Q-40                        |
| D114-116,123,124,215,<br>303,304,308-310,313,<br>315,403,404,406-408 | : 1SS133 or<br>HSS104A             |
| D117   | : S1ZB20(4101)                     |
| D118   | : MTZJ16(B) or<br>HSZ16N(B2)       |
| D119,301,302,401,402,  | : MTZJ15(B) or<br>HSZ15N(B2)       |
| D120   | : D2SBAA2F03                       |
| D121,122   | : D5SBAA2F03                       |
| D305,306   | : *                                |
| D307,311,312,314,316   | : MTZJ3.9(B) or<br>HSZ3.9N(B2)     |
| D319,320   | : *                                |
| D602,603   | : MTZJ5.6(B) or<br>HSZ5.6N(B2)     |

**CAUTION:** For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list).  $\Delta$  indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

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VR615/KRF-5560D (3/4)



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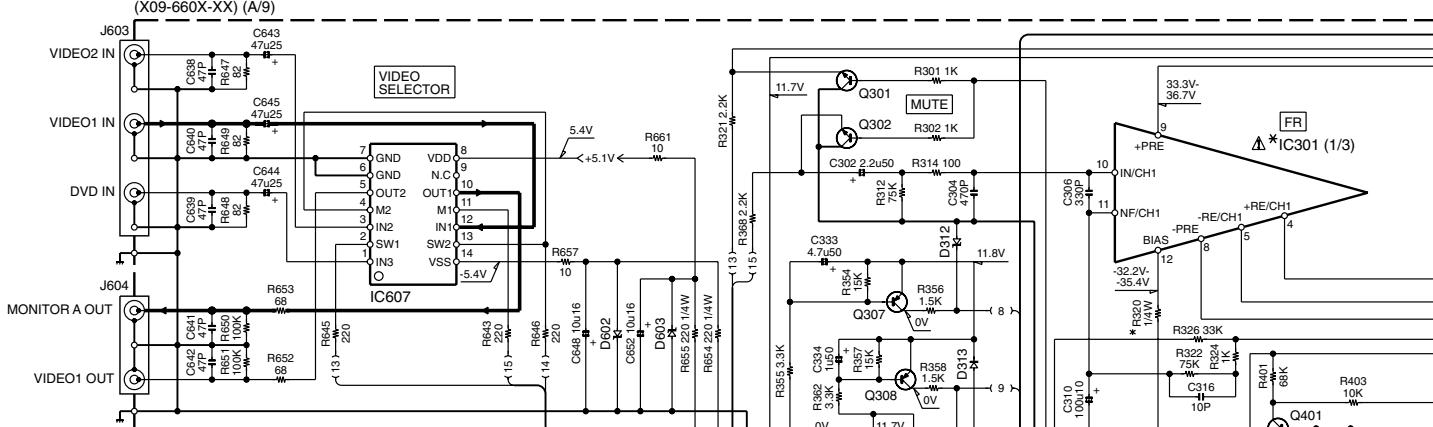
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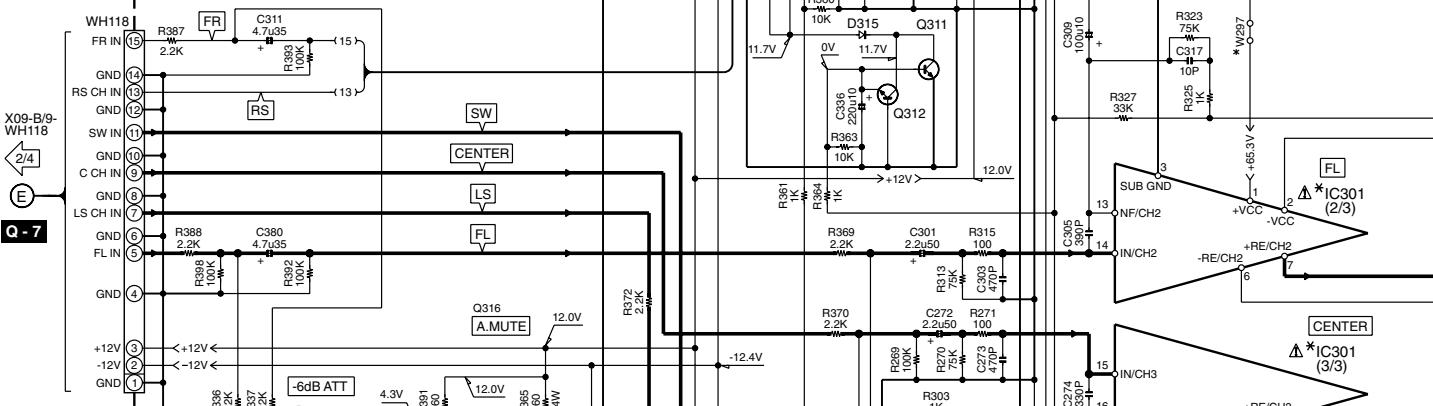
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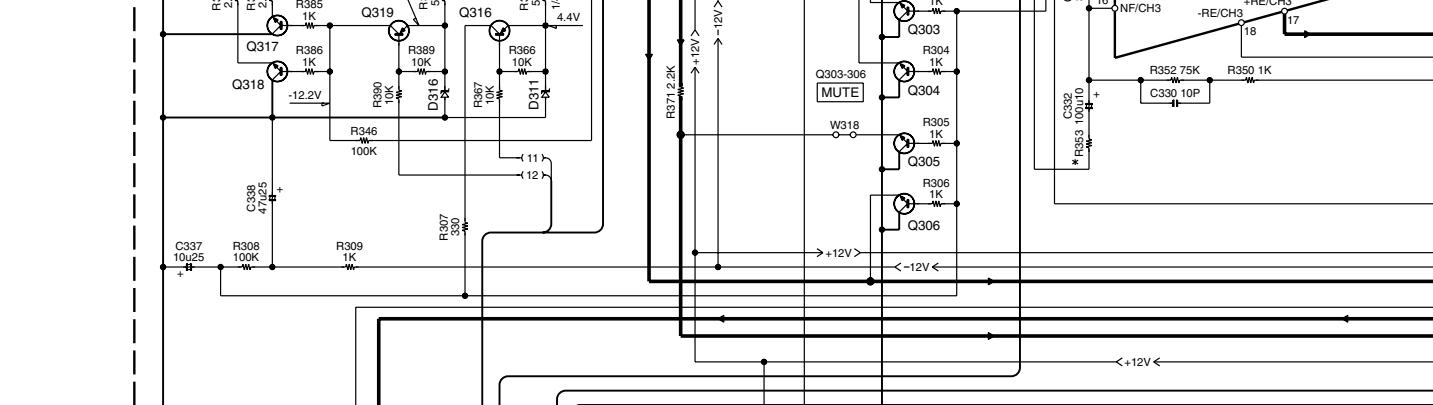
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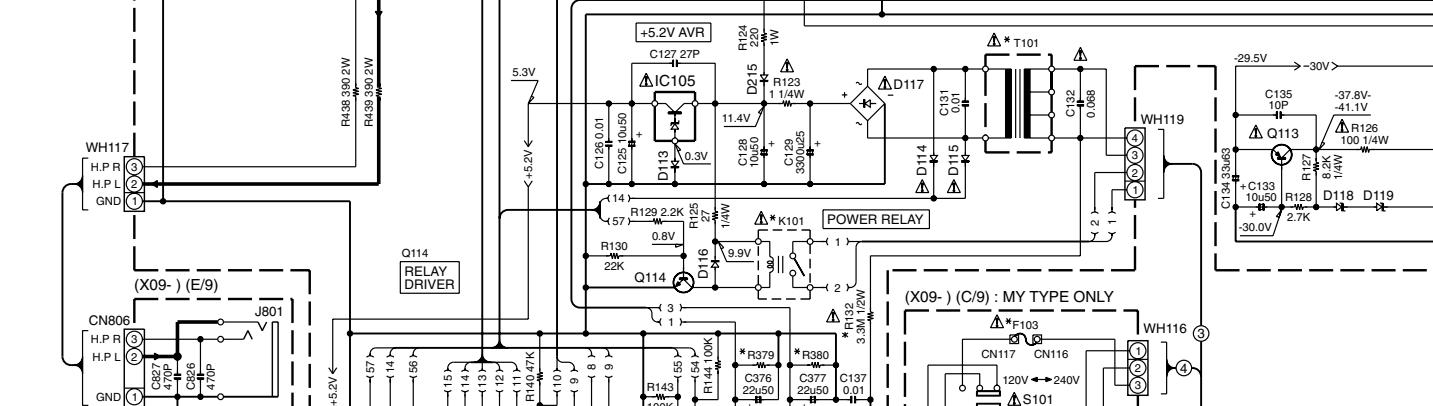
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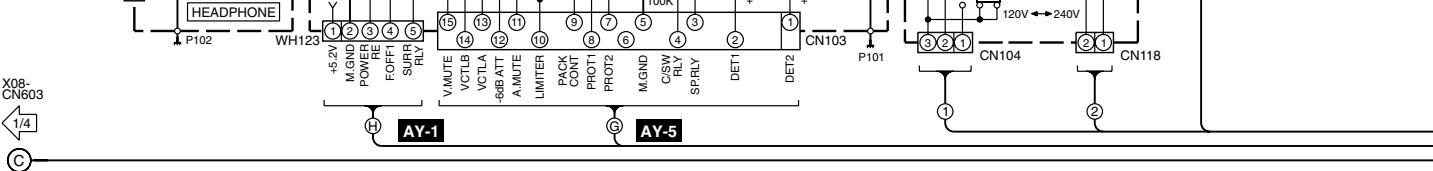
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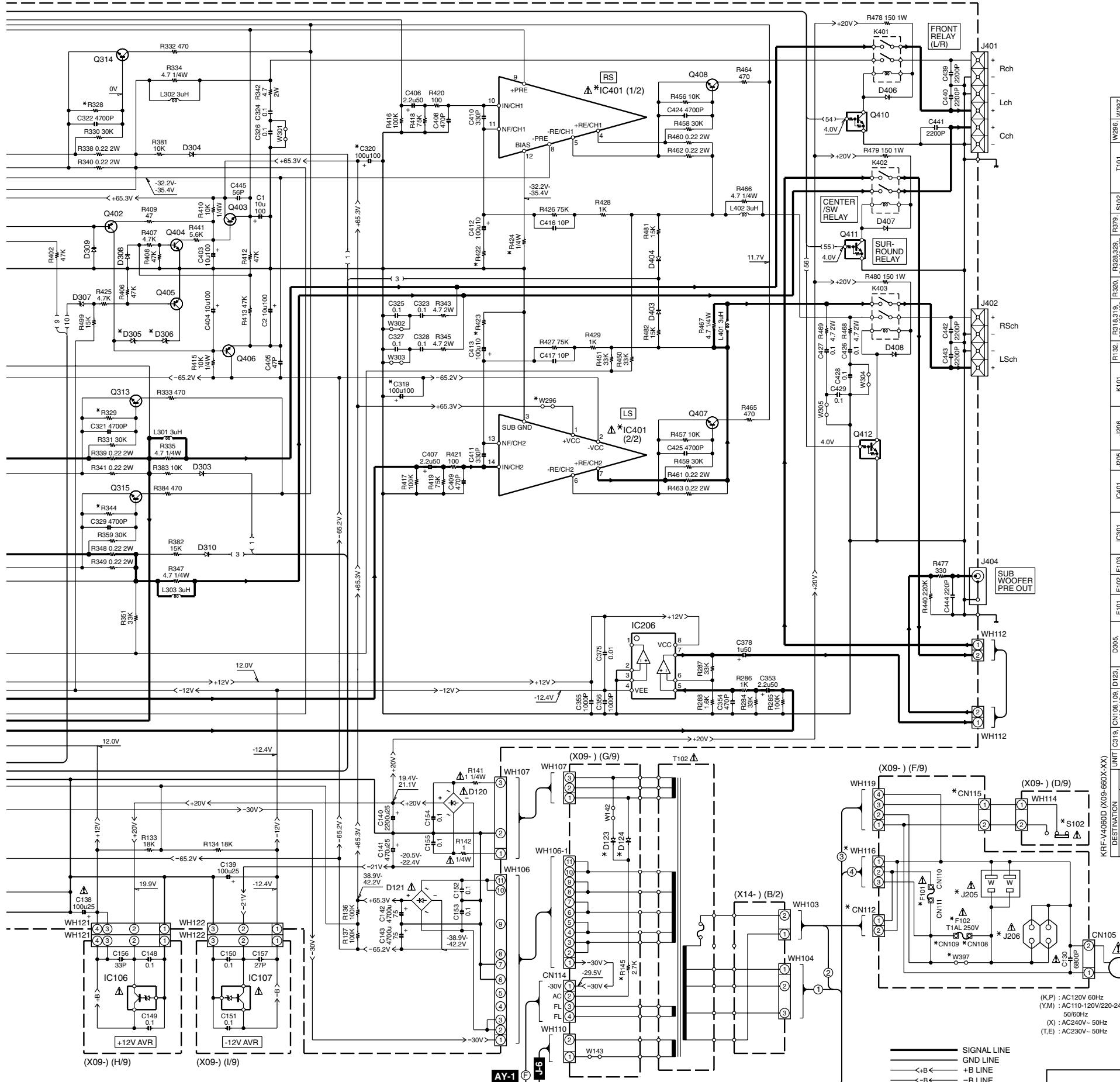


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(X09-660x-xx) (A)



| RF-5060D-S (X09-660Y-XX) |              |              |                      |                      |                 |      |      |                               |                               | UNIT<br>237  | WV<br>237    |
|--------------------------|--------------|--------------|----------------------|----------------------|-----------------|------|------|-------------------------------|-------------------------------|--------------|--------------|
| DESTINATION              | ROUTE        | CARRIER      | FLIGHT               | DEPARTURE            | ARRIVAL         | TIME | TIME | TIME                          | TIME                          | TIME         | TIME         |
| EUROPE                   | AIRBUS<br>NS | CS19,<br>320 | CN112<br>124         | D305,<br>305         | F101            | F102 | F103 | IC391                         | IC401                         | I205         | J206         |
| AUSTRIA                  | E3<br>ATL    | ATL<br>ATL   | ATZ710<br>HES 01N/02 | ATZ710<br>HES 01N/02 | T315AL<br>230V  | YES  | NO   | STK413-220A or<br>STK415-020A | STK415-220A or<br>STK415-020A | ED33/0149-05 | ED33/0149-05 |
| GENERAL MARKET           | X<br>M       | 0-21         | YES                  | NO                   | 13.15AL<br>250V | NO   | YES  | NO                            | NO                            | ED33/0149-05 | ED33/0149-05 |

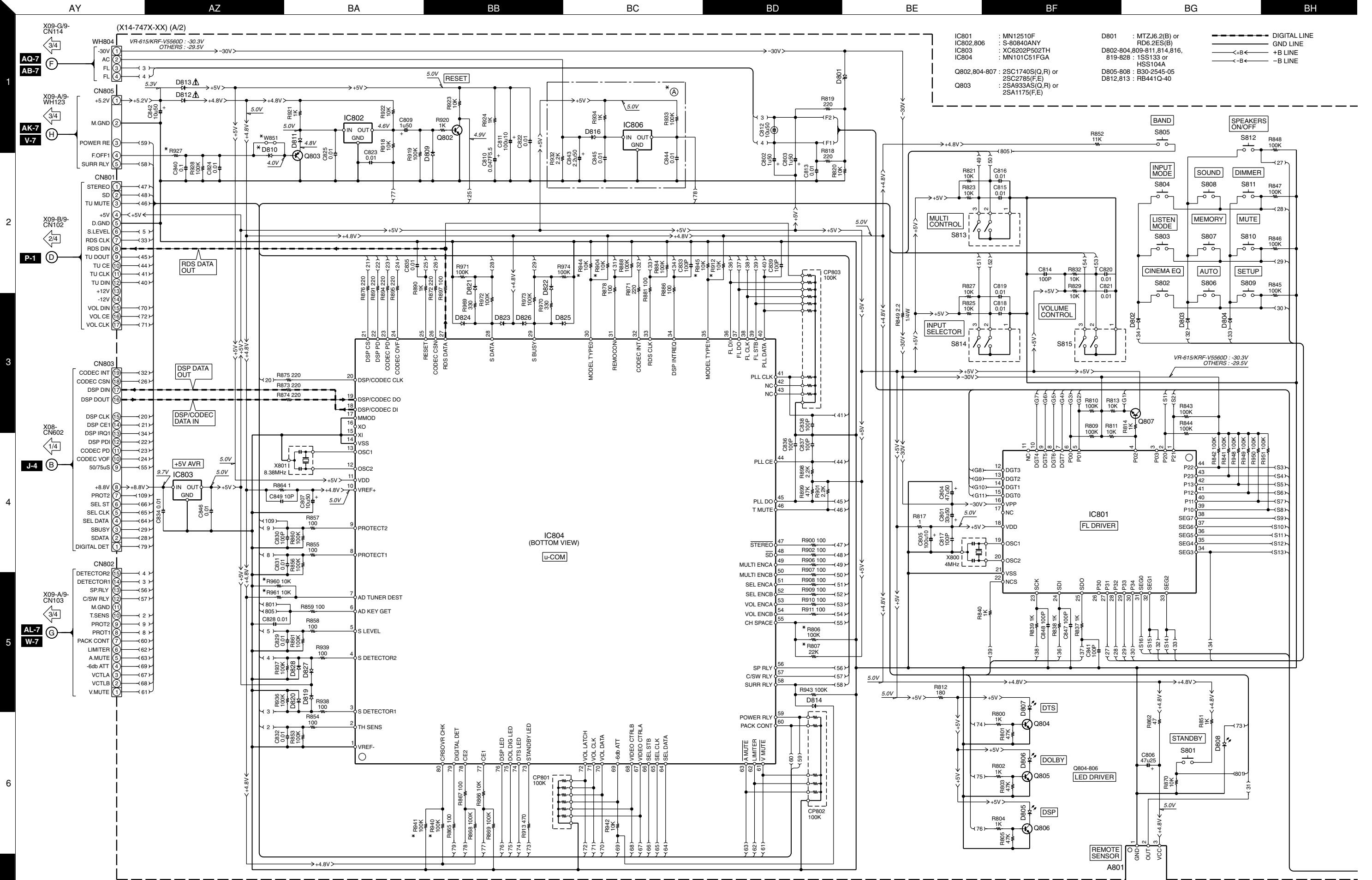
**CAUTION:** For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list).  indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

The DC voltage is an actual reading measured with a high impedance type voltmeter with a cassette loaded at playback mode. The measurement value may vary depending on the measuring instruments used or on the product. Bias circuit DC voltage is measured while in the record mode.

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X05-4530-10

KENWOOD



KRF-V4060D (X14-7472-73)

| DESTINATION | UNIT | UNIT | D810 | R806,904,<br>941,945,961 | R807,866,912,<br>940,944,960 | R927 | W851     |
|-------------|------|------|------|--------------------------|------------------------------|------|----------|
| COUNTRY     | ABB. | No.  | (A)  |                          |                              |      |          |
| EUROPE      | E    | 2-73 | NO   | NO                       | YES                          | NO   | 160K YES |
| U.K.        | T    |      |      |                          |                              |      |          |

KRF-V4060D-S (X14-7472-XX)

| DESTINATION    | UNIT | UNIT | D810 | R806,904,<br>941,945,961 | R807,866,912,<br>940,944,960 | R927 | W851 |
|----------------|------|------|------|--------------------------|------------------------------|------|------|
| COUNTRY        | ABB. | No.  | (A)  |                          |                              |      |      |
| GENERAL MARKET | M    | 0-23 | YES  | YES                      | NO                           | YES  |      |
| AUSTRALIA      | X    | 0-73 |      |                          |                              |      |      |
| EUROPE         | E3   | 2-73 | NO   | NO                       | YES                          | NO   | YES  |
| U.K.           | T    |      |      |                          |                              |      |      |

KRF-V4060DE (X14-7472-73)

| DESTINATION | UNIT | UNIT | D810 | R806,904,<br>941,945,961 | R807,866,912,<br>940,944,960 | R927 | W851     |
|-------------|------|------|------|--------------------------|------------------------------|------|----------|
| COUNTRY     | ABB. | No.  | (A)  |                          |                              |      |          |
| EUROPE      | E1   | 2-73 | NO   | NO                       | YES                          | NO   | 160K YES |

KRF-V4060DE-S (X14-7472-73)

| DESTINATION | UNIT | UNIT | D810 | R806,904,<br>941,945,961 | R807,866,912,<br>940,944,960 | R927 | W851     |
|-------------|------|------|------|--------------------------|------------------------------|------|----------|
| COUNTRY     | ABB. | No.  | (A)  |                          |                              |      |          |
| EUROPE      | E2   | 2-73 | NO   | NO                       | YES                          | NO   | 160K YES |

VR605 (X14-7470-10)

| DESTINATION | UNIT | UNIT | D810 | R806,904,<br>941,945,960 | R807,866,912,<br>940,944,960 | R927 | W851   |
|-------------|------|------|------|--------------------------|------------------------------|------|--------|
| COUNTRY     | ABB. | No.  | (A)  |                          |                              |      |        |
| U.S.A       | K    | 0-10 | NO   | YES                      | YES                          | NO   | 56K NO |
| CANADA      | P    |      |      |                          |                              |      |        |

KRF-V5060D (X14-7472-XX)

| DESTINATION | UNIT | UNIT | D810 | R806,904,<br>941,945,960 | R807,866,912,<br>940,944,960 | R904,<br>940,944 | R941,<br>944,961 | R927 | W851 |
|-------------|------|------|------|--------------------------|------------------------------|------------------|------------------|------|------|
| COUNTRY     | ABB. | No.  | (A)  |                          |                              |                  |                  |      |      |
| PX          | Y    | 0-21 | YES  | YES                      | NO                           | YES              | 62K              | NO   |      |
| EUROPE      | E    | 2-71 | NO   | NO                       | YES                          | NO               | 160K             | YES  | YES  |
| U.K.        | T    | 2-71 | NO   | NO                       | YES                          | NO               | 160K             | YES  | YES  |

KRF-V5060D-S (X14-7472-XX)

| DESTINATION | UNIT | UNIT | D810 | R806,904,<br>941,945,961 | R807,866,904,<br>912,940,960 | R927 | R941,<br>944,961 | R945 | R960 | W851 |
|-------------|------|------|------|--------------------------|------------------------------|------|------------------|------|------|------|
| COUNTRY     | ABB. | No.  | (A)  |                          |                              |      |                  |      |      |      |
| EUROPE      | E1   | 2-71 | NO   | NO                       | YES                          | NO   | 160K             | YES  |      |      |

VR-615 (X14-7470-11)

| DESTINATION | UNIT | UNIT | D810 | R806,912,<br>940,944,960 | R807,866,904,<br>941,945,961 | R927 | W851   |
|-------------|------|------|------|--------------------------|------------------------------|------|--------|
| COUNTRY     | ABB. | No.  | (A)  |                          |                              |      |        |
| U.S.A       | K    | 0-11 | NO   | YES                      | YES                          | NO   | 56K NO |
| CANADA      | P    |      |      |                          |                              |      |        |

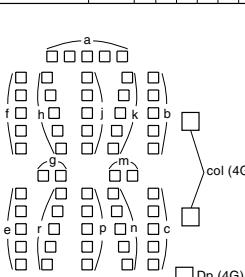
KRF-V5560D (X14-7472-XX)

| DESTINATION | UNIT | UNIT | D810 | R806,904,<br>941,945,960 | R807,866,904,<br>945,961 | R904,941,<br>945,961 | R912,940,944 | R927 | R960 | W851 |
|-------------|------|------|------|--------------------------|--------------------------|----------------------|--------------|------|------|------|
| COUNTRY     | ABB. | No.  | (A)  |                          |                          |                      |              |      |      |      |
| PX          | Y    | 0-22 | YES  | YES                      | NO                       | YES                  | 62K          | NO   |      |      |
| EUROPE      | E    | 2-72 | NO   | NO                       | YES                      | NO                   | 160K         | YES  |      |      |

KRF-V5560D-S (X14-7472-XX)

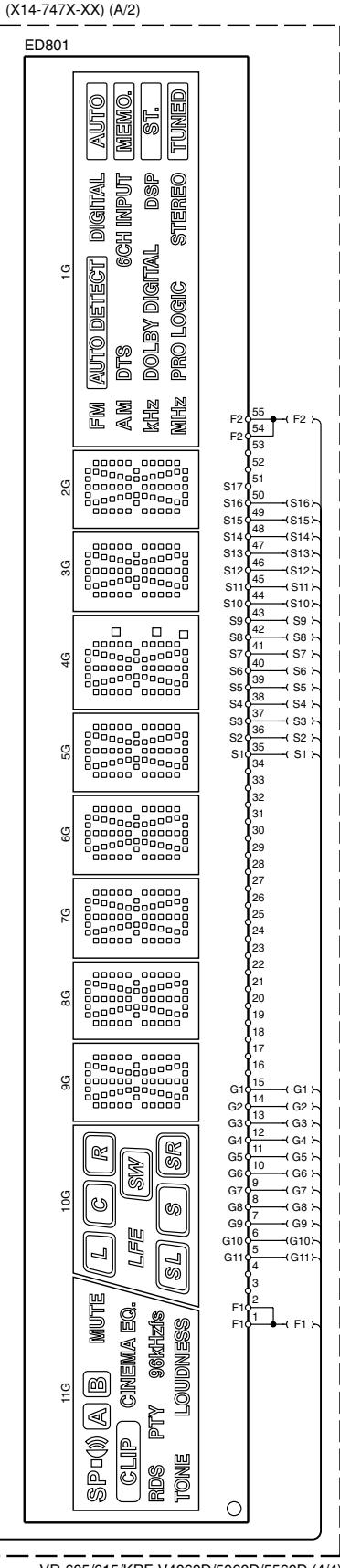
| DESTINATION    | UNIT | UNIT | D810 | R806,904,<br>941,945,960 | R807,866,904,<br>945,961 | R904,941,<br>945,961 | R912,940,944 | R927 | R960 | W851 |
|----------------|------|------|------|--------------------------|--------------------------|----------------------|--------------|------|------|------|
| COUNTRY        | ABB. | No.  | (A)  |                          |                          |                      |              |      |      |      |
| GENERAL MARKET | M    | 0-22 | YES  | YES                      | NO                       | YES                  | 62K          | NO   |      |      |
| AUSTRALIA      | X    | 0-72 |      |                          |                          |                      | 180K         | YES  |      |      |
| EUROPE         | E3   | 2-72 | NO   | NO                       | YES                      | NO                   | 160K         | NO   | YES  |      |
| U.K.           | T1   |      |      |                          |                          |                      |              |      |      |      |
| KOREA          | H    |      |      |                          |                          |                      |              |      |      |      |

| 11G | 10G        | 9G   | 8G | 7G | 6G | 5G | 4G | 3G | 2G | 1G            |
|-----|------------|------|----|----|----|----|----|----|----|---------------|
| P1  | SPE(II)    | L    | a  | a  | a  | a  | a  | a  |    | FM            |
| P2  | [A]        | C    | j  | j  | j  | j  | j  | j  |    | AM            |
| P3  | [B]        | R    | h  | h  | h  | h  | h  | h  |    | MHz           |
| P4  | MUTE       | SL   | k  | k  | k  | k  | k  | k  |    | kHz           |
| P5  | CLIP       | S    | b  | b  | b  | b  | b  | b  |    | AUTO          |
| P6  | CINEMA EQ. | SR   | f  | f  | f  | f  | f  | f  |    | MEMO          |
| P7  | —          | LFE  | g  | g  | g  | g  | g  | g  |    | ST.           |
| P8  | —          | SW   | m  | m  | m  | m  | m  | m  |    | TUNED         |
| P9  | RDS        | [L]  | c  | c  | c  | c  | c  | c  |    | AUTO DETECT   |
| P10 | PTY        | [G]  | e  | e  | e  | e  | e  | e  |    | DTS           |
| P11 | 98KHz      | [R]  | r  | r  | r  | r  | r  | r  |    | DOLBY DIGITAL |
| P12 | TONE       | [SL] | n  | n  | n  | n  | n  | n  |    | PRO LOGIC     |
| P13 | LOUDNESS   | [S]  | p  | p  | p  | p  | p  | p  |    | DIGITAL       |
| P14 | —          | [SP] | d  | d  | d  | d  | d  | d  |    | 6CH INPUT     |
| P15 | —          | [SW] | —  | —  | —  | —  | —  | —  |    | DSP           |
| P16 | —          | —    | —  | —  | —  | Dp | —  | —  |    | STEREO        |

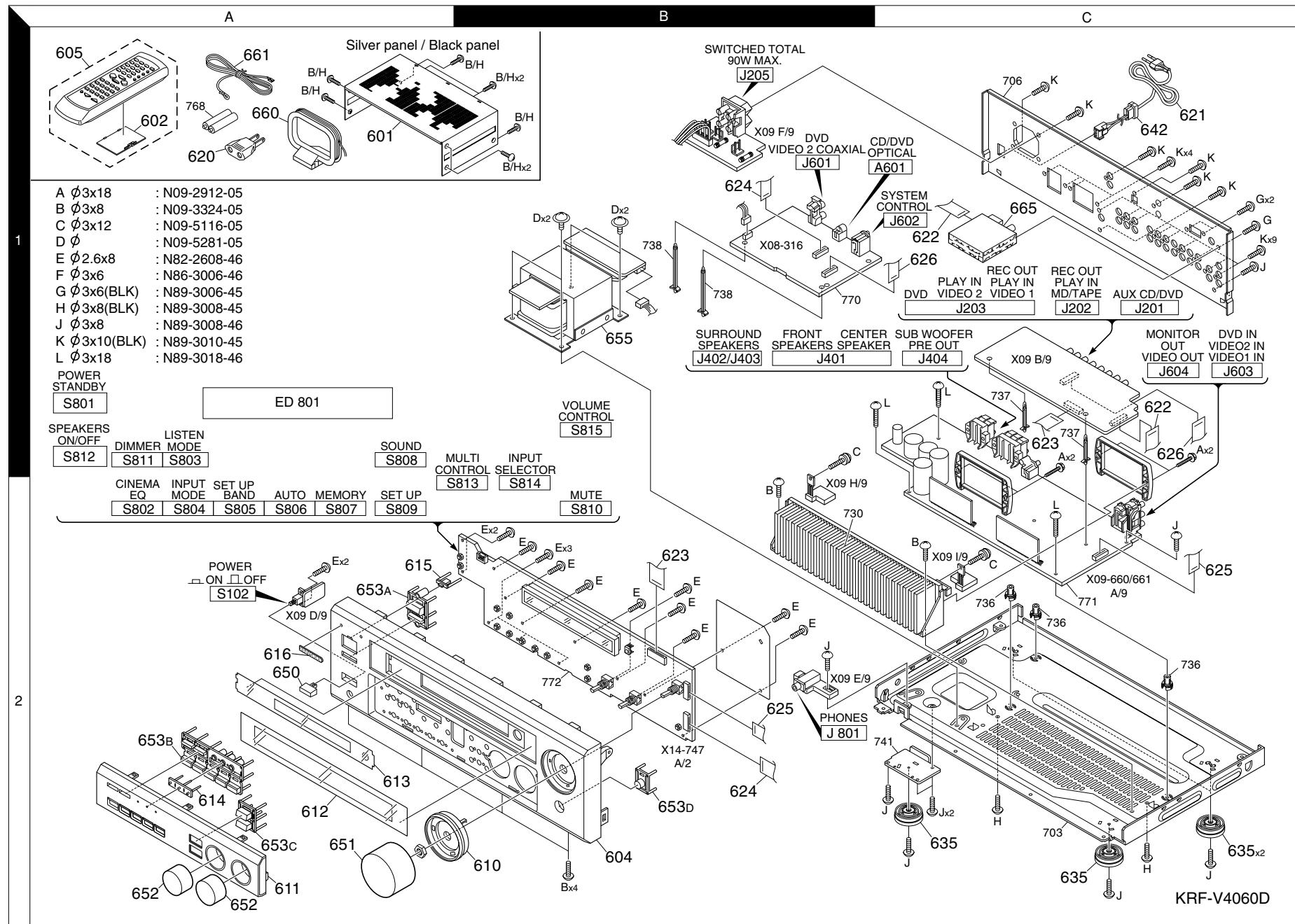


**CAUTION:** For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). **△** indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

The DC voltage is an actual reading measured with a high impedance type voltmeter with a cassette loaded at playback mode. The measurement value may vary depending on the measuring instruments used or on the product. Bias circuit DC voltage is measured while in the record mode.



## **EXPLODED VIEW**



# KRF-V4060D/V5060D/V5560D/VR-605/615

## PARTS LIST

\* New Parts  
 Parts without **Parts No.** are not supplied.  
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①

| Ref. No           | Add-<br>ress | New<br>Parts | Parts No.   | Description                   | Desti-<br>nation | Re-<br>marks |
|-------------------|--------------|--------------|-------------|-------------------------------|------------------|--------------|
| <b>KRF-V4060D</b> |              |              |             |                               |                  |              |
| 601               | 1A           |              | A01-3844-01 | METALLIC CABINET              | EE1T             |              |
| 601               | 1A           |              | A01-3848-01 | METALLIC CABINET              | E2E3M            |              |
| 601               | 1A           |              | A01-3848-01 | METALLIC CABINET              | XT1              |              |
| 602               | 2B           |              | A09-1178-08 | BATTERY COVER                 |                  |              |
| 604               | 2B           |              | A60-2190-11 | PANEL                         | EE1T             |              |
| 604               | 2B           |              | A60-2191-11 | PANEL                         | E2E3M            |              |
| 604               | 2B           |              | A60-2191-11 | PANEL                         | XT1              |              |
| 605               | 1A           |              | A70-1564-05 | REMOTE CONTROLLER ASSY        | MX               |              |
| 605               | 1A           |              | A70-1566-05 | REMOTE CONTROLLER ASSY        | EE1E2            |              |
| 605               | 1A           |              | A70-1566-05 | REMOTE CONTROLLER ASSY        | E3TT1            |              |
| 610               | 2B           |              | B07-2606-03 | ESCHUTCHEON                   | EE1T             |              |
| 610               | 2B           |              | B07-2607-03 | ESCHUTCHEON                   | E2E3M            |              |
| 610               | 2B           |              | B07-2607-03 | ESCHUTCHEON                   | XT1              |              |
| 611               | 2A           |              | B07-2610-01 | ESCHUTCHEON                   | EE1T             |              |
| 611               | 2A           |              | B07-2611-01 | ESCHUTCHEON                   | E2E3M            |              |
| 611               | 2A           |              | B07-2611-01 | ESCHUTCHEON                   | XT1              |              |
| 612               | 2A           | *            | B10-3813-02 | FRONT GLASS                   | MX               |              |
| 612               | 2A           | *            | B10-3814-02 | FRONT GLASS                   | EE1E2            |              |
| 612               | 2A           | *            | B10-3814-02 | FRONT GLASS                   | E3TT1            |              |
| 613               | 2A           |              | B11-1547-03 | COLOR FILTER                  |                  |              |
| 614               | 2A           |              | B12-0448-04 | INDICATOR                     |                  |              |
| 615               | 2A           |              | B12-0465-04 | INDICATOR                     |                  |              |
| 616               | 2A           |              | B43-0314-04 | KENWOOD BADGE                 |                  |              |
| -                 |              |              | B46-0096-53 | WARRANTY CARD                 | X                |              |
| -                 |              |              | B46-0310-03 | WARRANTY CARD                 | EE1E2            |              |
| -                 |              |              | B46-0310-03 | WARRANTY CARD                 | E3TT1            |              |
| -                 |              |              | B58-0945-03 | CAUTION CARD                  | TT1              |              |
| -                 |              |              | B58-0965-13 | CAUTION CARD (PL)             | XTT1             |              |
| -                 |              |              | B58-0966-13 | CAUTION CARD (PL)             | EE3M             |              |
| -                 |              |              | B58-1607-03 | CAUTION CARD                  | E1E2             |              |
| -                 |              |              | B60-5197-00 | INSTRUCTION MANUAL(EN)        | E1E2M            |              |
| -                 |              |              | B60-5197-00 | INSTRUCTION MANUAL(EN)        | XTT1             |              |
| -                 |              |              | B60-5199-00 | INSTRUCTION MANUAL(ES/FR/GE)  | EE3              |              |
| -                 |              | *            | B60-5200-00 | INSTRUCTION MANUAL(PL/RU/CZ)  | E1E2             |              |
| -                 |              | *            | B60-5201-00 | INSTRUCTION MANUAL(ES/TC)     | M                |              |
| △                 | 620          | 1A           | E03-0115-05 | AC PLUG ADAPTER               | M                |              |
| △                 | 621          | 1C           | E30-2717-05 | AC POWER CORD                 | X                |              |
| △                 | 621          | 1C           | E30-2721-05 | AC POWER CORD                 | TT1              |              |
| △                 | 621          | 1C           | E30-2942-05 | AC POWER CORD                 | EE1E2            |              |
| △                 | 621          | 1C           | E30-2942-05 | AC POWER CORD                 | E3M              |              |
| 622               | 1C           |              | E35-3197-15 | FLAT CABLE                    |                  |              |
| 623               | 2B,1C        |              | E35-3198-15 | FLAT CABLE                    |                  |              |
| 624               | 1B,2B        |              | E35-3199-15 | FLAT CABLE                    |                  |              |
| 625               | 2B,2C        |              | E35-3200-15 | FLAT CABLE                    |                  |              |
| 626               | 1C           |              | E35-3201-15 | FLAT CABLE                    |                  |              |
| -                 |              |              | G10-0485-04 | NON-WOVEN FABRIC              |                  |              |
| -                 |              |              | H10-7804-01 | POLYSTYRENE FOAMED FIXTURE    |                  |              |
| -                 |              |              | H10-7805-01 | POLYSTYRENE FOAMED FIXTURE    |                  |              |
| -                 |              |              | H21-1515-04 | PROTECTION SHEET              |                  |              |
| -                 |              |              | H25-0232-04 | PROTECTION BAG (235X350X0.03) |                  |              |
| -                 |              |              | H25-0391-04 | PROTECTION BAG                |                  |              |
| -                 |              | *            | H50-4393-04 | ITEM CARTON CASE              | E                |              |

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②

| Ref. No                  | Add-<br>ress | New<br>Parts | Parts No.   | Description            | Desti-<br>nation  | Re-<br>marks |
|--------------------------|--------------|--------------|-------------|------------------------|-------------------|--------------|
| <b>KRF-V5060D/VR-605</b> |              |              |             |                        |                   |              |
| -                        |              |              | *           | H50-4394-04            | ITEM CARTON CASE  | T            |
| -                        |              |              | *           | H50-4395-04            | ITEM CARTON CASE  | E1           |
| -                        |              |              | *           | H50-4396-04            | ITEM CARTON CASE  | M            |
| -                        |              |              | *           | H50-4397-04            | ITEM CARTON CASE  | XT1          |
| -                        |              |              | *           | H50-4399-04            | ITEM CARTON CASE  | E3           |
| -                        |              |              | *           | H50-4401-04            | ITEM CARTON CASE  | E2           |
| △                        | 635          | 2C           | J02-1464-03 | FOOT                   |                   |              |
|                          | 642          | 1C           | J42-0083-05 | POWER CORD BUSHING     |                   |              |
| -                        |              |              | J61-0307-05 | WIRE BAND              |                   |              |
| △                        | 650          | 2A           | K27-2384-04 | KNOB (BUTTON)          | EE1T              |              |
|                          | 650          | 2A           | K27-2481-04 | KNOB (BUTTON)          | E2E3M             |              |
|                          | 650          | 2A           | K27-2481-04 | KNOB (BUTTON)          | XT1               |              |
|                          | 651          | 2A           | K29-8103-04 | KNOB                   | EE1T              |              |
|                          | 651          | 2A           | K29-8104-04 | KNOB                   | E2E3M             |              |
|                          | 651          | 2A           | K29-8104-04 | KNOB                   | XT1               |              |
|                          | 652          | 2A           | K29-8105-04 | KNOB                   | EE1T              |              |
|                          | 652          | 2A           | K29-8106-04 | KNOB                   | E2E3M             |              |
|                          | 652          | 2A           | K29-8106-04 | KNOB                   | XT1               |              |
|                          | 653          | 2A,2B        | K29-8117-01 | KNOB                   | EE1T              |              |
| △                        | 653          | 2A,2B        | K29-8119-01 | KNOB                   | E2E3M             |              |
|                          | 653          | 2A,2B        | K29-8119-01 | KNOB                   | XT1               |              |
| △                        | 655          | 1B           | *           | L07-3167-15            | POWER TRANSFORMER | EE1E2        |
| △                        | 655          | 1B           | *           | L07-3167-15            | POWER TRANSFORMER | E3TT1        |
| △                        | 655          | 1B           | *           | L07-3168-15            | POWER TRANSFORMER | M            |
| △                        | 655          | 1B           | *           | L07-3169-15            | POWER TRANSFORMER | MX           |
| 660                      | 1A           |              | T90-0852-05 | LOOP ANTENNA           |                   |              |
| 661                      | 1A           |              | T90-0877-05 | LEAD WIRE ANTENNA      |                   |              |
| 665                      | 1C           |              | W02-2889-05 | TUNER ASSY             | MX                |              |
| 665                      | 1C           |              | W02-2890-05 | TUNER ASSY             | EE1E2             |              |
| 665                      | 1C           |              | W02-2890-05 | TUNER ASSY             | E3TT1             |              |
| 665                      | 1C           |              | W02-2891-05 | TUNER ASSY             | EE1E2             |              |
| 665                      | 1C           |              | W02-2891-05 | TUNER ASSY             | E3TT1             |              |
| <b>KRF-V5060D/VR-605</b> |              |              |             |                        |                   |              |
| 601                      | 1A           | *            | A01-3844-01 | METALLIC CABINET       | ETE1              |              |
| 601                      | 1A           | *            | A01-3844-01 | METALLIC CABINET       | KPY               |              |
| 601                      | 1A           | *            | A01-3848-01 | METALLIC CABINET       | MXE3T1            |              |
| 602                      | 1A           | *            | A09-1178-08 | BATTERY COVER          |                   |              |
| 604                      | 2B           | *            | A60-2186-11 | PANEL                  | KP                |              |
| 604                      | 2B           | *            | A60-2190-11 | PANEL                  | YETE1             |              |
| 604                      | 2B           | *            | A60-2191-11 | PANEL                  | MXE3T1            |              |
| 605                      | 1A           | *            | A70-1563-05 | REMOTE CONTROLLER ASSY | YMX               |              |
| 605                      | 1A           | *            | A70-1564-05 | REMOTE CONTROLLER ASSY | KP                |              |
| 605                      | 1A           | *            | A70-1565-05 | REMOTE CONTROLLER ASSY | ETE1              |              |
| 605                      | 1A           | *            | A70-1565-05 | REMOTE CONTROLLER ASSY | E3T1              |              |
| 610                      | 2B           | *            | B07-2606-03 | ESCHUTCHEON            | ETE1              |              |
| 610                      | 2B           | *            | B07-2606-03 | ESCHUTCHEON            | KPY               |              |
| 610                      | 2B           | *            | B07-2607-03 | ESCHUTCHEON            | MXE3T1            |              |
| 611                      | 2A           | *            | B07-2610-01 | ESCHUTCHEON            | ETE1              |              |
| 611                      | 2A           | *            | B07-2610-01 | ESCHUTCHEON            | KPY               |              |

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# KRF-V4060D/V5060D/V5560D/VR-605/615

## PARTS LIST

\* New Parts

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③

| Ref. No | Add-ress | New Parts | Parts No.   | Description                   | Desti-nation | Re-marks |
|---------|----------|-----------|-------------|-------------------------------|--------------|----------|
| 611     | 2A       | *         | B07-2611-01 | ESCUTCHEON                    | MXE3T1       |          |
| 612     | 2A       | *         | B10-3805-02 | FRONT GLASS                   | KP           |          |
| 612     | 2A       | *         | B10-3808-02 | FRONT GLASS                   | YMX          |          |
| 612     | 2A       | *         | B10-3809-02 | FRONT GLASS                   | ETE1         |          |
| 612     | 2A       | *         | B10-3809-02 | FRONT GLASS                   | E3T1         |          |
| 613     | 2A       | *         | B11-1547-03 | COLOR FILTER                  |              |          |
| 614     | 2A       | *         | B12-0448-04 | INDICATOR                     |              |          |
| 615     | 2A       | *         | B12-0465-04 | INDICATOR                     |              |          |
| 616     | 2A       | *         | B43-0314-04 | KENWOOD BADGE                 |              |          |
| -       |          |           | B46-0096-53 | WARRANTY CARD                 | X            |          |
| -       |          |           | B46-0310-03 | WARRANTY CARD                 | ETE1         |          |
| -       |          |           | B46-0310-03 | WARRANTY CARD                 | E3T1         |          |
| -       |          |           | B46-0328-03 | WARRANTY CARD                 | Y            |          |
| -       |          |           | B46-0330-03 | WARRANTY CARD                 | K            |          |
| -       |          |           | B46-0347-03 | WARRANTY CARD                 | P            |          |
| -       |          |           | B58-0513-04 | CAUTION CARD (PRESET220-240)  | Y            |          |
| -       |          |           | B58-0945-03 | CAUTION CARD                  | TT1          |          |
| -       |          |           | B58-0964-13 | CAUTION CARD (UL)             | KY           |          |
| -       |          |           | B58-0965-13 | CAUTION CARD (PL)             | XTT1         |          |
| -       |          |           | B58-0966-13 | CAUTION CARD (PL)             | MEE3         |          |
| -       |          |           | B58-0967-03 | CAUTION CARD (PL)             | P            |          |
| -       |          |           | B58-1607-03 | CAUTION CARD                  | E1           |          |
| -       |          |           | B58-1674-03 | CAUTION CARD (P1,PRA,A4,1)    | K            |          |
| -       |          | *         | B59-1104-00 | SERVICE DIRECTORY             | Y            |          |
| -       |          | *         | B60-5197-00 | INSTRUCTION MANUAL(EN)        | E1T1         |          |
| -       |          | *         | B60-5197-00 | INSTRUCTION MANUAL(EN)        | KPY          |          |
| -       |          | *         | B60-5198-00 | INSTRUCTION MANUAL(FR)        | MXT          |          |
| -       |          | *         | B60-5199-00 | INSTRUCTION MANUAL(ES/FR/GE)  | P            |          |
| -       |          | *         | B60-5200-00 | INSTRUCTION MANUAL(PL/RU/CZ)  | EE3          |          |
| -       |          | *         | B60-5201-00 | INSTRUCTION MANUAL(ES/TC)     | E1           |          |
| △       | 620      | 1A        | E03-0115-05 | AC PLUG ADAPTER               | M            |          |
| △       | 621      | 1C        | E30-2605-05 | AC POWER CORD                 | Y            |          |
| △       | 621      | 1C        | E30-2717-05 | AC POWER CORD                 | X            |          |
| △       | 621      | 1C        | E30-2721-05 | AC POWER CORD                 | TT1          |          |
| △       | 621      | 1C        | E30-2941-05 | AC POWER CORD                 | KP           |          |
| △       | 621      | 1C        | E30-2942-05 | AC POWER CORD                 |              |          |
| 622     | 1C       | *         | E35-3197-15 | FLAT CABLE                    |              |          |
| 623     | 2B,1C    | *         | E35-3198-15 | FLAT CABLE                    |              |          |
| 624     | 1B,2B    | *         | E35-3199-15 | FLAT CABLE                    |              |          |
| 625     | 2B,2C    | *         | E35-3200-15 | FLAT CABLE                    |              |          |
| 626     | 1C       | *         | E35-3201-15 | FLAT CABLE                    |              |          |
| -       |          |           | G10-0485-04 | NON-WOVEN FABRIC              |              |          |
| -       |          | *         | H10-7804-01 | POLYSTYRENE FOAMED FIXTURE    |              |          |
| -       |          | *         | H10-7805-01 | POLYSTYRENE FOAMED FIXTURE    |              |          |
| -       |          | *         | H21-1515-04 | PROTECTION SHEET              |              |          |
| -       |          | *         | H25-0232-04 | PROTECTION BAG (235X350X0.03) |              |          |
| -       |          | *         | H25-0391-04 | PROTECTION BAG                |              |          |
| -       |          | *         | H50-4376-04 | ITEM CARTON CASE              | KP           |          |
| -       |          | *         | H50-4377-04 | ITEM CARTON CASE              | YT           |          |
| -       |          | *         | H50-4378-04 | ITEM CARTON CASE              | E            |          |
| -       |          | *         | H50-4380-04 | ITEM CARTON CASE              | E1           |          |
| -       |          | *         | H50-4381-04 | ITEM CARTON CASE              | M            |          |

L : Scandinavia

K : USA

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I :

Malaysia

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T : England

E : Europe

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V : China(Shanghai)

M :

Other Areas

△ indicates safety critical components .

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④

| Ref. No | Add-ress | New Parts | Parts No.   | Description        | Desti-nation      | Re-marks |
|---------|----------|-----------|-------------|--------------------|-------------------|----------|
| -       | -        | *         | H50-4382-04 | ITEM CARTON CASE   | XT1               |          |
| -       | -        | *         | H50-4383-04 | ITEM CARTON CASE   | E3                |          |
| △       | 635      | 2C        | J02-1464-03 | FOOT               |                   |          |
|         | 642      | 1C        | J42-0349-05 | POWER CORD BUSHING |                   |          |
| -       | -        |           | J61-0307-05 | WIRE BAND          |                   |          |
| -       | 650      | 2A        | *           | K27-2384-04        | KNOB (BUTTON)     | YETE1    |
| -       | 650      | 2A        | *           | K27-2481-04        | KNOB (BUTTON)     | MXE3T1   |
| -       | 651      | 2A        | *           | K29-8103-04        | KNOB              | ETE1     |
| -       | 651      | 2A        | *           | K29-8103-04        | KNOB              | KPY      |
| -       | 651      | 2A        | *           | K29-8104-04        | KNOB              | MXE3T1   |
| -       | 652      | 2A        | *           | K29-8105-04        | KNOB              | ETE1     |
| -       | 652      | 2A        | *           | K29-8105-04        | KNOB              | KPY      |
| -       | 652      | 2A        | *           | K29-8106-04        | KNOB              | MXE3T1   |
| -       | 653      | 2A,2B     | *           | K29-8117-01        | KNOB              | ETE1     |
| -       | 653      | 2A,2B     | *           | K29-8117-01        | KNOB              | KPY      |
| △       | 655      | 1B        | *           | L07-2922-05        | POWER TRANSFORMER | KP       |
| △       | 655      | 1B        | *           | L07-2923-05        | POWER TRANSFORMER | YM       |
| △       | 655      | 1B        | *           | L07-2924-05        | POWER TRANSFORMER | X        |
| △       | 655      | 1B        | *           | L07-3210-05        | POWER TRANSFORMER | ETE1     |
| △       | 655      | 1B        | *           | L07-3210-05        | POWER TRANSFORMER | E3T1     |
| -       | 660      | 1A        | T90-0852-05 | LOOP ANTENNA       |                   |          |
| -       | 661      | 1A        | T90-0877-05 | LEAD WIRE ANTENNA  |                   |          |
| -       | 665      | 1C        | *           | W02-2887-05        | TUNER ASSY        | KP       |
| -       | 665      | 1C        | *           | W02-2888-05        | TUNER ASSY        | KP       |
| -       | 665      | 1C        | *           | W02-2889-05        | TUNER ASSY        | YMX      |
| -       | 665      | 1C        | *           | W02-2890-05        | TUNER ASSY        | EE1E3    |
| -       | 665      | 1C        | *           | W02-2890-05        | TUNER ASSY        | TT1      |
| -       | 665      | 1C        | *           | W02-2891-05        | TUNER ASSY        | KP       |
| -       | 665      | 1C        | *           | W02-2891-05        | TUNER ASSY        | EE1E3    |
| -       | 665      | 1C        | *           | W02-2907-05        | TUNER ASSY        | TT1      |

## KRF-V5560D/VR-615

|     |    |  |             |                        |       |  |
|-----|----|--|-------------|------------------------|-------|--|
| 601 | 1A |  | A01-3844-01 | METALLIC CABINET       | KPYE  |  |
| 601 | 1A |  | A01-3848-01 | METALLIC CABINET       | MXE3  |  |
| 601 | 1A |  | A01-3848-01 | METALLIC CABINET       | T1H   |  |
| 602 | 1A |  | A09-1178-08 | BATTERY COVER          |       |  |
| 604 | 2B |  | A60-2186-11 | PANEL                  | KP    |  |
| 604 | 2B |  | A60-2190-11 | PANEL                  | YE    |  |
| 604 | 2B |  | A60-2191-11 | PANEL                  | MXE3  |  |
| 605 | 1A |  | A70-1563-05 | REMOTE CONTROLLER ASSY | T1H   |  |
| 605 | 1A |  | A70-1564-05 | REMOTE CONTROLLER ASSY | KP    |  |
| 605 | 1A |  | A70-1566-05 | REMOTE CONTROLLER ASSY | YMXH  |  |
| 610 | 2B |  | B07-2606-03 | ESCU TCHEON            | EE3T1 |  |
| 610 | 2B |  | B07-2607-03 | ESCU TCHEON            | KPYE  |  |
| 610 | 2B |  | B07-2607-03 | ESCU TCHEON            | MXE3  |  |
| 611 | 2A |  | B07-2610-01 | ESCU TCHEON            | T1H   |  |
| 611 | 2A |  | B07-2611-01 | ESCU TCHEON            | KPYE  |  |
| 611 | 2A |  | B07-2611-01 | ESCU TCHEON            | MXE3  |  |

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# KRF-V4060D/V5060D/V5560D/VR-605/615

## PARTS LIST

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| Ref. No | Add-ress | New Parts   | Parts No.                     | Description | Desti-nation | Re-marks |
|---------|----------|-------------|-------------------------------|-------------|--------------|----------|
| 611     | 2A       | B07-2611-01 | ESCUTCHEON                    |             | T1H          |          |
| 612     | 2A       | B10-3810-02 | FRONT GLASS                   |             | KP           |          |
| 612     | 2A       | B10-3811-02 | FRONT GLASS                   |             | YMXH         |          |
| 612     | 2A       | B10-3812-02 | FRONT GLASS                   |             | EE3T1        |          |
| 613     | 2A       | B11-1547-03 | COLOR FILTER                  |             |              |          |
| 614     | 2A       | B12-0448-04 | INDICATOR                     |             |              |          |
| 615     | 2A       | B12-0465-04 | INDICATOR                     |             |              |          |
| 616     | 2A       | B43-0314-04 | KENWOOD BADGE                 |             | X            |          |
| -       | -        | B46-0096-53 | WARRANTY CARD                 |             | EE3T1        |          |
| -       | -        | B46-0310-03 | WARRANTY CARD                 |             |              |          |
| -       | -        | B46-0328-03 | WARRANTY CARD                 |             | Y            |          |
| -       | -        | B46-0330-03 | WARRANTY CARD                 |             | K            |          |
| -       | -        | B46-0333-03 | WARRANTY CARD                 |             | H            |          |
| -       | -        | B46-0347-03 | WARRANTY CARD                 |             | P            |          |
| -       | -        | B58-0513-04 | CAUTION CARD (PRESET220-240)  |             | Y            |          |
| -       | -        | B58-0945-03 | CAUTION CARD                  |             | T1           |          |
| -       | -        | B58-0964-13 | CAUTION CARD (UL)             |             | KY           |          |
| -       | -        | B58-0965-13 | CAUTION CARD (PL)             |             | XT1          |          |
| -       | -        | B58-0966-13 | CAUTION CARD (PL)             |             | MEE3         |          |
| -       | -        | B58-0967-03 | CAUTION CARD (PL)             |             | P            |          |
| -       | -        | B58-1674-03 | CAUTION CARD (P1,PRA,A4,1)    |             | K            |          |
| -       | -        | B59-1104-00 | SERVICE DIRECTORY             |             | Y            |          |
| -       | -        | B60-5197-00 | INSTRUCTION MANUAL(EN)        |             | KPY          |          |
| -       | -        | B60-5197-00 | INSTRUCTION MANUAL(EN)        |             | MXT1         |          |
| -       | -        | B60-5198-00 | INSTRUCTION MANUAL(FR)        |             | P            |          |
| -       | -        | B60-5199-00 | INSTRUCTION MANUAL(ES/FR/GE)  |             | EE3          |          |
| -       | -        | B60-5201-00 | INSTRUCTION MANUAL(ES/TC)     |             | M            |          |
| △ 620   | 1A       | E03-0115-05 | AC PLUG ADAPTER               |             | M            |          |
| △ 621   | 1C       | E30-2605-05 | AC POWER CORD                 |             | Y            |          |
| △ 621   | 1C       | E30-2717-05 | AC POWER CORD                 |             | X            |          |
| △ 621   | 1C       | E30-2721-05 | AC POWER CORD                 |             | T1           |          |
| △ 621   | 1C       | E30-2941-05 | AC POWER CORD                 |             | KP           |          |
| △ 621   | 1C       | E30-2942-05 | AC POWER CORD                 |             | MEE3         |          |
| △ 621   | 1C       | E30-2950-05 | AC POWER CORD                 |             | H            |          |
| 622     | 1C       | E35-3197-15 | FLAT CABLE                    |             |              |          |
| 623     | 2B,1C    | E35-3198-15 | FLAT CABLE                    |             |              |          |
| 624     | 1B,2B    | E35-3199-15 | FLAT CABLE                    |             |              |          |
| 625     | 2B,2C    | E35-3200-15 | FLAT CABLE                    |             |              |          |
| 626     | 1C       | E35-3201-15 | FLAT CABLE                    |             |              |          |
| -       |          | G10-0485-04 | NON-WOVEN FABRIC              |             |              |          |
| -       |          | H10-7804-01 | POLYSTYRENE FOAMED FIXTURE    |             |              |          |
| -       |          | H10-7805-01 | POLYSTYRENE FOAMED FIXTURE    |             |              |          |
| -       |          | H21-1515-04 | PROTECTION SHEET              |             |              |          |
| -       |          | H25-0232-04 | PROTECTION BAG (235X350X0.03) |             |              |          |
| -       |          | H25-0391-04 | PROTECTION BAG                |             |              |          |
| -       | *        | H50-4385-04 | ITEM CARTON CASE              |             | KP           |          |
| -       | *        | H50-4386-04 | ITEM CARTON CASE              |             | Y            |          |
| -       | *        | H50-4387-04 | ITEM CARTON CASE              |             | E            |          |
| -       | *        | H50-4388-04 | ITEM CARTON CASE              |             | XT1          |          |
| -       | *        | H50-4389-04 | ITEM CARTON CASE              |             | MH           |          |
| -       | *        | H50-4391-04 | ITEM CARTON CASE              |             | E3           |          |
| 635     | 2C       | J02-1464-03 | FOOT                          |             |              |          |

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|-------------------------------|----------|-----------|----------------------------|---------------------------------|--------------|----------|
| △ 642                         | -        | 1C        | J42-0349-05<br>J61-0307-05 | POWER CORD BUSHING<br>WIRE BAND |              |          |
| 650                           | 2A       |           | K27-2384-04                | KNOB (BUTTON)                   | YE           |          |
| 650                           | 2A       |           | K27-2481-04                | KNOB (BUTTON)                   | MXE3         |          |
| 650                           | 2A       |           | K27-2481-04                | KNOB (BUTTON)                   | T1H          |          |
| 651                           | 2A       |           | K29-8103-04                | KNOB                            | KPYE         |          |
| 651                           | 2A       |           | K29-8104-04                | KNOB                            | MXE3         |          |
| 651                           | 2A       |           | K29-8104-04                | KNOB                            | T1H          |          |
| 652                           | 2A       |           | K29-8105-04                | KNOB                            | KPYE         |          |
| 652                           | 2A       |           | K29-8106-04                | KNOB                            | MXE3         |          |
| 652                           | 2A       |           | K29-8106-04                | KNOB                            | T1H          |          |
| 653                           | 2A,2B    |           | K29-8117-01                | KNOB                            | KPYE         |          |
| 653                           | 2A,2B    |           | K29-8119-01                | KNOB                            | MXE3         |          |
| 653                           | 2A,2B    |           | K29-8119-01                | KNOB                            | T1H          |          |
| △ 655                         | 1B       |           | L07-2922-05                | POWER TRANSFORMER               | KP           |          |
| △ 655                         | 1B       |           | L07-2923-05                | POWER TRANSFORMER               | YM           |          |
| △ 655                         | 1B       |           | L07-2924-05                | POWER TRANSFORMER               | X            |          |
| △ 655                         | 1B       |           | L07-3210-05                | POWER TRANSFORMER               | EE3T1H       |          |
| 660                           | 1A       |           | T90-0852-05                | LOOP ANTENNA                    |              |          |
| 661                           | 1A       |           | T90-0877-05                | LEAD WIRE ANTENNA               |              |          |
| 665                           | 1C       |           | W02-2887-05                | TUNER ASSY                      | KP           |          |
| 665                           | 1C       |           | W02-2888-05                | TUNER ASSY                      | KP           |          |
| 665                           | 1C       |           | W02-2889-05                | TUNER ASSY                      | YMXH         |          |
| 665                           | 1C       |           | W02-2890-05                | TUNER ASSY                      | EE3T1        |          |
| 665                           | 1C       |           | W02-2891-05                | TUNER ASSY                      | EE3T1        |          |
| 665                           | 1C       |           | W02-2907-05                | TUNER ASSY                      | KP           |          |
| <b>SURROUND (X08-3160-10)</b> |          |           |                            |                                 |              |          |
| C601                          |          |           | CK73GB1H103K               | CHIP C                          | 0.010UF      | K        |
| C602                          |          |           | CK73GB1H102K               | CHIP C                          | 1000PF       | K        |
| C603                          |          |           | CC73GCH1H220J              | CHIP C                          | 22PF         | J        |
| C604                          |          |           | CC73GCH1H270J              | CHIP C                          | 27PF         | J        |
| C605,606                      |          |           | CK73GB1H103K               | CHIP C                          | 0.010UF      | K        |
| C607                          |          |           | CC73GCH1H220J              | CHIP C                          | 22PF         | K        |
| C608                          |          |           | CK73GB1H102K               | CHIP C                          | 1000PF       | K        |
| C609,610                      |          |           | CK73EB1E104K               | CHIP C                          | 0.10UF       | K        |
| C611                          |          |           | CK73GB1H102K               | CHIP C                          | 1000PF       | K        |
| C612                          |          |           | CK73EB1E104K               | CHIP C                          | 0.10UF       | K        |
| C613                          |          |           | CE04LW1H2R2M               | ELECTRO                         | 2.2UF        | 50WV     |
| C614                          |          |           | CK73GB1H103K               | CHIP C                          | 0.010UF      | K        |
| C615                          |          |           | CC73GCH1H471J              | CHIP C                          | 470PF        | J        |
| C616                          |          |           | CE04LW1E470M               | ELECTRO                         | 47UF         | 25WV     |
| C617                          |          |           | CK73EB1E104K               | CHIP C                          | 0.10UF       | K        |
| C618                          |          |           | CK73GB1H103K               | CHIP C                          | 0.010UF      | K        |
| C619,620                      |          |           | CK73EB1E104K               | CHIP C                          | 0.10UF       | K        |
| C621                          |          |           | CE04LW1H2R2M               | ELECTRO                         | 2.2UF        | 50WV     |
| C622,623                      |          |           | CK73GB1H103K               | CHIP C                          | 0.010UF      | K        |
| C624                          |          |           | CC73GCH1H101J              | CHIP C                          | 100PF        | J        |
| C630                          |          |           | CE04LW1H100M               | ELECTRO                         | 10UF         | 50WV     |
| C631                          |          |           | CK73EB1E104K               | CHIP C                          | 0.10UF       | K        |
| C632,633                      |          |           | CC73GCH1H221J              | CHIP C                          | 220PF        | J        |

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|-----------|----------|-----------|---------------|------------------------------|--------------|----------|
| C634,635  |          |           | CC73GCH1H220J | CHIP C 22PF J                |              |          |
| C636,637  |          |           | CK73GB1H472K  | CHIP C 4700PF K              |              |          |
| C654      |          |           | CE04LW1H100M  | ELECTRO 10UF 50WV            |              |          |
| C656      |          |           | CE04LW1E470M  | ELECTRO 47UF 25WV            |              |          |
| C657      |          |           | CE04LW1A101M  | ELECTRO 100UF 10WV           |              |          |
| C658      |          |           | CK73GB1H103K  | CHIP C 0.010UF K             |              |          |
| C659      |          |           | CE04KW1A101M  | ELECTRO 100UF 10WV           |              |          |
| C660      |          |           | CC73GCH1H280J | CHIP C 82PF J                |              |          |
| C661      |          |           | CK73GB1H103K  | CHIP C 0.010UF K             |              |          |
| C662      |          |           | CE04LW1A101M  | ELECTRO 100UF 10WV           |              |          |
| C664      |          |           | CK73EB1E104K  | CHIP C 0.10UF K              |              |          |
| C665      |          |           | CC73GCH1H330J | CHIP C 33PF J                |              |          |
| C666      |          |           | CK73EB1E104K  | CHIP C 0.10UF K              |              |          |
| C667      |          |           | CE04KW1C472M  | ELECTRO 4700UF 16WV          |              |          |
| C668,669  |          |           | CK73EB1E104K  | CHIP C 0.10UF K              |              |          |
| C670      |          |           | CE04LW1H100M  | ELECTRO 10UF 50WV            |              |          |
| C671      |          |           | CK73EB1E104K  | CHIP C 0.10UF K              |              |          |
| C672      |          |           | CC73GCH1H220J | CHIP C 22PF J                |              |          |
| C673,674  |          |           | CE04LW1H100M  | ELECTRO 10UF 50WV            |              |          |
| C675,676  |          |           | CC73GCH1H220J | CHIP C 22PF J                |              |          |
| C700      |          |           | CC73GCH1H470J | CHIP C 47PF J                |              |          |
| C701,702  |          |           | CE04LW1H100M  | ELECTRO 10UF 50WV            |              |          |
| C703,704  |          |           | CK73GB1H222K  | CHIP C 2200PF K              |              |          |
| C705,706  |          |           | CK73GB1H182K  | CHIP C 1800PF K              |              |          |
| C707,708  |          |           | CC73GCH1H101J | CHIP C 100PF J               |              |          |
| C709      |          |           | CK73GB1H472K  | CHIP C 4700PF K              |              |          |
| C710      |          |           | CC73GCH1H101J | CHIP C 100PF J               |              |          |
| C711,712  |          |           | CE04LW1H100M  | ELECTRO 10UF 50WV            |              |          |
| C713,714  |          |           | CK73GB1H821K  | CHIP C 820PF K               |              |          |
| C715,716  |          |           | CK73GB1H222K  | CHIP C 2200PF K              |              |          |
| C717,718  |          |           | CC73GCH1H101J | CHIP C 100PF J               |              |          |
| C719      |          |           | CC73GCH1H470J | CHIP C 47PF J                |              |          |
| C720      |          |           | CC73GCH1H330J | CHIP C 33PF J                |              |          |
| C721,722  |          |           | CE04LW1H100M  | ELECTRO 10UF 50WV            |              |          |
| C723      |          |           | CK73GB1H222K  | CHIP C 2200PF K              |              |          |
| C724      |          |           | CK73GB1H822K  | CHIP C 8200PF K              |              |          |
| C725      |          |           | CK73GB1H182K  | CHIP C 1800PF K              |              |          |
| C726      |          |           | CK73GB1H822K  | CHIP C 8200PF K              |              |          |
| C727,728  |          |           | CC73GCH1H101J | CHIP C 100PF J               |              |          |
| C737,738  |          |           | CC73GCH1H220J | CHIP C 22PF J                |              |          |
| C739,740  |          |           | CE04LW1H100M  | ELECTRO 10UF 50WV            |              |          |
| C741      |          |           | CK73GB1H102K  | CHIP C 1000PF K              |              |          |
| C742      |          |           | CC73GCH1H101J | CHIP C 100PF J               |              |          |
| C743      |          |           | CK73GB1H102K  | CHIP C 1000PF K              |              |          |
| C744      |          |           | CC73GCH1H101J | CHIP C 100PF J               |              |          |
| C791,792  |          |           | CC73GCH1H471J | CHIP C 470PF J               |              |          |
| CN601     | *        |           | E40-8482-05   | FLAT CABLE CONNECTOR         |              |          |
| CN602     |          |           | E40-8483-05   | FLAT CABLE CONNECTOR         |              |          |
| CN603     |          |           | E40-3246-05   | PIN ASSY                     |              |          |
| J601      |          |           | E63-1080-05   | PIN JACK                     |              |          |
| J602      |          |           | E11-0293-05   | MINIATURE PHONE JACK(2P)     |              |          |
| X601      |          |           | L77-2296-05   | CRYSTAL RESONATOR(12.288MHZ) |              |          |
| CP601,602 |          |           | R90-0714-05   | MULTI-COMP 10K X4            |              |          |

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|-----------|----------|-----------|--------------|--------------------|--------------|----------|
| CP603-605 |          |           | R90-0728-05  | MULTI-COMP 180 X4  |              |          |
| CP606-608 |          |           | R90-0720-05  | MULTI-COMP 100K X4 |              |          |
| R601,602  |          |           | RK73GB1J221J | CHIP R 220         | J 1/16W      |          |
| R603,604  |          |           | RK73GB1J105J | CHIP R 1.0M        | J 1/16W      |          |
| R605      |          |           | RK73GB1J103J | CHIP R 10K         | J 1/16W      |          |
| R607      |          |           | RK73GB1J471J | CHIP R 470         | J 1/16W      |          |
| R608      |          |           | RK73GB1J221J | CHIP R 220         | J 1/16W      |          |
| R609      |          |           | RK73GB1J104J | CHIP R 100K        | J 1/16W      |          |
| R610      |          |           | RK73GB1J221J | CHIP R 220         | J 1/16W      |          |
| R611,612  |          |           | RK73GB1J332J | CHIP R 3.3K        | J 1/16W      |          |
| R613,614  |          |           | RK73GB1J221J | CHIP R 220         | J 1/16W      |          |
| R615      |          |           | RK73GB1J101J | CHIP R 100         | J 1/16W      | YM       |
| R623      |          |           | RK73GB1J103J | CHIP R 10K         | J 1/16W      |          |
| R624      |          |           | RK73GB1J221J | CHIP R 220         | J 1/16W      |          |
| R625      |          |           | RK73GB1J332J | CHIP R 3.3K        | J 1/16W      |          |
| R626      |          |           | RK73GB1J472J | CHIP R 4.7K        | J 1/16W      |          |
| R627,628  |          |           | RK73GB1J221J | CHIP R 220         | J 1/16W      |          |
| R629      |          |           | RK73GB1J103J | CHIP R 10K         | J 1/16W      |          |
| R630      |          |           | RK73GB1J333J | CHIP R 33K         | J 1/16W      |          |
| R631      |          |           | RK73GB1J101J | CHIP R 100         | J 1/16W      |          |
| R632,633  |          |           | RK73GB1J472J | CHIP R 4.7K        | J 1/16W      |          |
| R634      |          |           | RK73GB1J471J | CHIP R 470         | J 1/16W      |          |
| R635      |          |           | RK73GB1J820J | CHIP R 82          | J 1/16W      |          |
| R637,638  |          |           | RK73GB1J220J | CHIP R 22          | J 1/16W      |          |
| R639      |          |           | RK73GB1J183J | CHIP R 18K         | J 1/16W      |          |
| R640,641  |          |           | RK73GB1J4R7J | CHIP R 4.7         | J 1/16W      |          |
| R642      |          |           | RK73GB1J220J | CHIP R 22          | J 1/16W      |          |
| R644      |          |           | RK73GB1J820J | CHIP R 82          | J 1/16W      |          |
| R663      |          |           | RK73GB1J221J | CHIP R 220         | J 1/16W      |          |
| R664      |          |           | R92-1993-05  | METAL GLAZE 560    | J 1/4W       |          |
| R665      |          |           | RK73GB1J223J | CHIP R 22K         | J 1/16W      |          |
| R666      |          |           | RS14KB3D180J | FL-PROOF RS 18     | 2W           |          |
| R670      |          |           | RD14NB2E4R7J | RD 4.7             | J 1/4W       |          |
| R671      |          |           | RD14NB2E1R0J | RD 1               | J 1/4W       |          |
| R672      |          |           | RK73GB1J221J | CHIP R 220         | J 1/16W      |          |
| R673      |          |           | RK73GB1J473J | CHIP R 47K         | J 1/16W      |          |
| R674      |          |           | RK73GB1J472J | CHIP R 4.7K        | J 1/16W      |          |
| R675      |          |           | RK73GB1J221J | CHIP R 220         | J 1/16W      |          |
| R676      |          |           | RK73GB1J102J | CHIP R 1.0K        | J 1/16W      |          |
| R677      |          |           | RK73GB1J152J | CHIP R 1.5K        | J 1/16W      |          |
| R678,679  |          |           | RK73GB1J220J | CHIP R 22          | J 1/16W      |          |
| R680      |          |           | RK73GB1J471J | CHIP R 470         | J 1/16W      |          |
| R683,684  |          |           | RK73GB1J471J | CHIP R 470         | J 1/16W      |          |
| R685      |          |           | R92-1945-05  | METAL GLAZE 1      | J 1/4W       |          |
| R689      |          |           | RK73GB1J220J | CHIP R 22          | J 1/16W      |          |
| R690      |          |           | RK73GB1J471J | CHIP R 470         | J 1/16W      |          |
| R691      |          |           | RD14NB2E4R7J | RD 4.7             | J 1/4W       |          |
| R692      |          |           | RK73GB1J220J | CHIP R 22          | J 1/16W      |          |
| R701,702  |          |           | RK73GB1J222J | CHIP R 2.2K        | J 1/16W      |          |
| R703,704  |          |           | RK73GB1J104J | CHIP R 100K        | J 1/16W      |          |
| R705,706  |          |           | RK73GB1J222J | CHIP R 2.2K        | J 1/16W      |          |
| R707,708  |          |           | RK73GB1J103J | CHIP R 10K         | J 1/16W      |          |
| R709,710  |          |           | RK73GB1J472J | CHIP R 4.7K        | J 1/16W      |          |
| R711,712  |          |           | RK73GB1J332J | CHIP R 3.3K        | J 1/16W      |          |
| R713,714  |          |           | RK73GB1J104J | CHIP R 100K        | J 1/16W      |          |

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# KRF-V4060D/V5060D/V5560D/VR-605/615

## PARTS LIST

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(13)

| Ref. No   | Add-ress | New Parts | Parts No.    | Description                 | Desti-nation | Re-marks |
|-----------|----------|-----------|--------------|-----------------------------|--------------|----------|
| CN115     |          |           | E40-4245-05  | PIN ASSY                    | TT1YMX       |          |
| CN118     |          |           | E40-4245-05  | PIN ASSY                    | YM           |          |
| CN201     | *        |           | E40-8482-05  | FLAT CABLE CONNECTOR        |              |          |
| CN806     |          |           | E40-3247-05  | PIN ASSY                    |              |          |
| J201      | *        |           | E63-1256-05  | PIN JACK                    |              |          |
| J202      | *        |           | E63-1258-05  | PIN JACK                    |              |          |
| J203      | *        |           | E63-1256-05  | PIN JACK                    | EE1E3        | 5        |
| J203      | *        |           | E63-1256-05  | PIN JACK                    | TT1YMX       | 5        |
| J203      | *        |           | E63-1258-05  | PIN JACK                    |              | 4        |
| J203      | *        |           | E63-1258-05  | PIN JACK                    | KP           | 5        |
| J204      |          |           | E63-1260-05  | PIN JACK                    | EE1E3        | 5        |
| J204      |          |           | E63-1260-05  | PIN JACK                    | TT1YMX       | 5        |
| J205      |          |           | E03-0148-05  | AC OUTLET                   | KPY          | 5        |
| J206      |          |           | E03-0149-05  | AC OUTLET                   | EE1E2        |          |
| J206      |          |           | E03-0149-05  | AC OUTLET                   | E3M          |          |
| J206      |          |           | E03-0310-05  | AC OUTLET                   | TT1          |          |
| J206      |          |           | E03-0325-05  | AC OUTLET                   | X            |          |
| J401      | *        |           | E70-0156-05  | LOCK TERMINAL BOARD         |              |          |
| J402      | *        |           | E70-0155-05  | LOCK TERMINAL BOARD         |              |          |
| J404      |          |           | E63-1146-05  | PIN JACK                    |              |          |
| J603      | *        |           | E63-1254-05  | PIN JACK                    |              |          |
| J604      | *        |           | E63-1255-05  | PIN JACK                    |              |          |
| J801      |          |           | E11-0271-05  | PHONE JACK (METAL SLEEVE)   |              |          |
| F101      |          |           | F05-2525-05  | FUSE (SEMKO) (250V T2.5AL)  | EE1E3        | 4        |
| F101      |          |           | F05-3121-05  | FUSE (SEMKO) (250V T3.15AL) | TT1YMX       | 5        |
| F101      |          |           | F05-3121-05  | FUSE (SEMKO) (250V T3.15AL) | KP           |          |
| F101      |          |           | F50-0077-05  | FUSE(5X20)                  |              |          |
| F102      |          |           | F06-1022-05  | FUSE (SEMKO) (250V T1AL)    |              |          |
| F102      |          |           | F06-1022-05  | FUSE (SEMKO) (250V T1AL)    | EE1E3        | 5        |
| F102      |          |           | F06-1022-05  | FUSE (SEMKO) (250V T1AL)    | TT1MX        | 5        |
| F103      |          |           | F05-2525-05  | FUSE (SEMKO) (250V T2.5AL)  | M            | 4        |
| F103      |          |           | F05-3121-05  | FUSE (SEMKO) (250V T3.15AL) | YM           | 5        |
| CN108,109 |          |           | J13-0075-05  | FUSE CLIP                   | EE1E3        |          |
| CN108,109 |          |           | J13-0075-05  | FUSE CLIP                   | TT1MX        |          |
| CN110,111 |          |           | J13-0075-05  | FUSE CLIP                   |              |          |
| CN116,117 |          |           | J13-0075-05  | FUSE CLIP                   |              |          |
| E11-14    |          |           | J11-0809-05  | WIRE CLAMPER                | YM           |          |
| L301-303  |          |           | L39-1373-05  | PHASE COMPENSATION COIL     |              |          |
| L401,402  |          |           | L39-1373-05  | PHASE COMPENSATION COIL     |              |          |
| T101      |          |           | L07-2758-05  | POWER TRANSFORMER           | EE1E2        |          |
| T101      |          |           | L07-2758-05  | POWER TRANSFORMER           | E3TT1        |          |
| T101      |          |           | L07-2758-05  | POWER TRANSFORMER           | KPX          |          |
| T101      |          |           | L07-2761-05  | POWER TRANSFORMER           |              |          |
| T101      |          |           | L07-2761-05  | POWER TRANSFORMER           | EE1E2        |          |
| T101      |          |           | L07-2761-05  | POWER TRANSFORMER           | E3TT1        |          |
| T101      |          |           | L07-2761-05  | POWER TRANSFORMER           | KPX          |          |
| X101      |          |           | L07-2805-05  | POWER TRANSFORMER           | YM           |          |
| X101      |          |           | L77-2002-05  | CRYSTAL RESONATOR(4.332MHZ) | EE1E2        |          |
| X101      |          |           | L77-2002-05  | CRYSTAL RESONATOR(4.332MHZ) | E3TT1        |          |
| R123      |          |           | RD14NB2E1R0J |                             |              |          |
| R124      |          |           | RS14KB3A221J |                             |              |          |
| R125      |          |           | RD14NB2E270J |                             |              |          |
| R126      |          |           | RD14NB2E101J |                             |              |          |
| R127      |          |           | RD14NB2E822J |                             |              |          |
|           |          |           | RD           | 1                           | J            | 1/4W     |
|           |          |           | FL-PROOF RS  | 220                         | J            | 1W       |
|           |          |           | RD           | 27                          | J            | 1/4W     |
|           |          |           | RD           | 100                         | J            | 1/4W     |
|           |          |           | RD           | 8.2K                        | J            | 1/4W     |

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(14)

| Ref. No           | Add-ress | New Parts | Parts No.    | Description | Desti-nation | Re-marks |
|-------------------|----------|-----------|--------------|-------------|--------------|----------|
| R132              |          |           | R92-1844-05  | CARBON      | 3.3M         | J 1/2W   |
| $\Delta$ R141,142 |          |           | RD14NB2E1R0J | RD          | 1            | J 1/4W   |
| R213,214          |          |           | RD14BB2C102J | RD          | 1.0K         | J 1/6W   |
| R316,317          |          |           | RS14KB3A472J | FL-PROOF RS | 4.7K         | J 1W     |
| R334,335          |          |           | RD14NB2E4R7J | RD          | 4.7          | J 1/4W   |
| $\Delta$ R338-341 |          |           | RS14KB3DR22J | FL-PROOF RS | 0.22         | J 2W     |
| R342,343          |          |           | RS14KB3D4R7J | FL-PROOF RS | 4.7          | J 2W     |
| R345              |          |           | RS14KB3D4R7J | FL-PROOF RS | 4.7          | J 2W     |
| R347              |          |           | RD14NB2E4R7J | RD          | 4.7          | J 1/4W   |
| R348,349          |          |           | RS14KB3DR22J | FL-PROOF RS | 0.22         | J 2W     |
| R365              |          |           | RD14NB2E561J | RD          | 560          | J 1/4W   |
| R410              |          |           | RD14NB2E103J | RD          | 10K          | J 1/4W   |
| R411              |          |           | RD14NB2E101J | RD          | 100          | J 1/4W   |
| R414              |          |           | RD14NB2E101J | RD          | 100          | J 1/4W   |
| R415              |          |           | RD14NB2E103J | RD          | 10K          | J 1/4W   |
| R438,439          |          |           | RS14KB3D391J | FL-PROOF RS | 390          | J 2W     |
| R452,453          |          |           | RS14KB3A472J | FL-PROOF RS | 4.7K         | J 1W     |
| R460-463          |          |           | RS14KB3DR22J | FL-PROOF RS | 0.22         | J 2W     |
| R466,467          |          |           | RD14NB2E4R7J | RD          | 4.7          | J 1/4W   |
| R468,469          |          |           | RS14KB3D4R7J | FL-PROOF RS | 4.7          | J 2W     |
| R478-480          |          |           | RS14KB3A151J | FL-PROOF RS | 150          | J 1W     |
| $\Delta$ K101     |          |           | S76-0099-05  |             |              |          |
| $\Delta$ K101     |          |           | S76-0102-05  |             |              |          |
| $\Delta$ K101     |          |           | S76-0102-05  |             |              |          |
| $\Delta$ K401-403 |          |           | S76-0102-05  |             |              |          |
| $\Delta$ S101     |          |           | 1.5,S62      |             |              |          |
| $\Delta$ S102     |          |           | S68-0107-05  |             |              |          |
| $\Delta$ S102     |          |           | S68-0107-05  |             |              |          |
| D113              |          |           | RB441Q-40    |             |              |          |
| $\Delta$ D114-116 |          |           | HSS104A      |             |              |          |
| $\Delta$ D114-116 |          |           | 1SS133       |             |              |          |
| $\Delta$ D117     |          |           | S1ZB20(4101) |             |              |          |
| D118              |          |           | HZS16N(B2)   |             |              |          |
| D119              |          |           | MTZJ16(B)    |             |              |          |
| D119              |          |           | HZS15N(B2)   |             |              |          |
| D120              |          |           | MTZJ15(B)    |             |              |          |
| D121              |          |           | D25BA20F03   |             |              |          |
| D122              |          |           | D5SBA20F03   |             |              |          |
| D123,124          |          |           | HSS104A      |             |              |          |
| D201              |          |           | 1SS133       |             |              |          |
| D201              |          |           | HZS6.8N(B2)  |             |              |          |
| D202              |          |           | MTZJ6.8(B)   |             |              |          |
| D203              |          |           | HZS5.1N(B2)  |             |              |          |
| D203              |          |           | MTZJ5.1(B)   |             |              |          |
| D215              |          |           | HZS6.8N(B2)  |             |              |          |
| D215              |          |           | MTZJ6.8(B)   |             |              |          |
| D301,302          |          |           | HSS104A      |             |              |          |
| D301,302          |          |           | 1SS133       |             |              |          |
| D301,302          |          |           | HZS15N(B2)   |             |              |          |
| D303,304          |          |           | MTZJ15(B)    |             |              |          |
| D303,304          |          |           | HSS104A      |             |              |          |

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|----------|----------|-----------|-------------|-------------|--------------|----------|
| D303,304 |          |           | 1SS133      | DIODE       |              |          |
| D305,306 |          |           | HZS10N(B2)  | ZENER DIODE | EE1E2        |          |
| D305,306 |          |           | HZS10N(B2)  | ZENER DIODE | E3TT1        |          |
| D305,306 |          |           | HZS10N(B2)  | ZENER DIODE | YMX          |          |
| D305,306 |          |           | HZS11N(B2)  | ZENER DIODE | KP           |          |
| D305,306 |          |           | MTZJ10(B)   | ZENER DIODE | EE1E2        |          |
| D305,306 |          |           | MTZJ10(B)   | ZENER DIODE | E3TT1        |          |
| D305,306 |          |           | MTZJ10(B)   | ZENER DIODE | YMX          |          |
| D305,306 |          |           | MTZJ11(B)   | ZENER DIODE | KP           |          |
| D307     |          |           | HZS3.9N(B2) | ZENER DIODE |              |          |
| D307     |          |           | MTZJ3.9(B)  | ZENER DIODE |              |          |
| D308-310 |          |           | HSS104A     | DIODE       |              |          |
| D308-310 |          |           | 1SS133      | DIODE       |              |          |
| D311,312 |          |           | HZS3.9N(B2) | ZENER DIODE |              |          |
| D311,312 |          |           | MTZJ3.9(B)  | ZENER DIODE |              |          |
| D313     |          |           | HSS104A     | DIODE       |              |          |
| D313     |          |           | 1SS133      | DIODE       |              |          |
| D314     |          |           | HZS3.9N(B2) | ZENER DIODE |              |          |
| D314     |          |           | MTZJ3.9(B)  | ZENER DIODE |              |          |
| D315     |          |           | HSS104A     | DIODE       |              |          |
| D315     |          |           | 1SS133      | DIODE       |              |          |
| D316     |          |           | HZS3.9N(B2) | ZENER DIODE |              |          |
| D316     |          |           | MTZJ3.9(B)  | ZENER DIODE |              |          |
| D317,318 |          |           | HSS104A     | DIODE       |              |          |
| D317,318 |          |           | 1SS133      | DIODE       |              |          |
| D319     |          |           | HZS11N(B2)  | ZENER DIODE | EE1E3        | 5        |
| D319     |          |           | HZS11N(B2)  | ZENER DIODE | TT1          | 5        |
| D319     |          |           | MTZJ11(B)   | ZENER DIODE | EE1E3        | 5        |
| D319     |          |           | MTZJ11(B)   | ZENER DIODE | TT1          | 5        |
| D319,320 |          |           | HZS11N(B2)  | ZENER DIODE | KPYMX        | 5        |
| D319,320 |          |           | MTZJ15(B)   | ZENER DIODE |              |          |
| D320     |          |           | HZS13N(B2)  | ZENER DIODE |              |          |
| D320     |          |           | HZS13N(B2)  | ZENER DIODE |              |          |
| D320     |          |           | MTZJ13(B)   | ZENER DIODE |              |          |
| D320     |          |           | MTZJ13(B)   | ZENER DIODE |              |          |
| D401,402 |          |           | HZS15N(B2)  | ZENER DIODE |              |          |
| D401,402 |          |           | MTZJ15(B)   | ZENER DIODE |              |          |
| D403,404 |          |           | HSS104A     | DIODE       |              |          |
| D403,404 |          |           | 1SS133      | DIODE       |              |          |
| D406-408 |          |           | HSS104A     | DIODE       |              |          |
| D406-408 |          |           | 1SS133      | DIODE       |              |          |
| D602,603 |          |           | HZS5.6N(B2) | ZENER DIODE |              |          |
| D602,603 |          |           | MTZJ5.6(B)  | ZENER DIODE |              |          |
| D999     |          |           | HSS104A     | DIODE       |              |          |
| D999     |          |           | 1SS133      | DIODE       |              |          |
| IC101    |          |           | BU1923      | ANALOGUE IC | EE1E2        |          |
| IC101    |          |           | BU1923      | ANALOGUE IC | E3TT1        |          |
| IC105    |          |           | BA05T       | ANALOGUE IC |              |          |
| IC106    |          |           | KIA7812API  | ANALOGUE IC |              |          |
| IC107    |          |           | KIA7912PI   | ANALOGUE IC |              |          |
| IC201    |          |           | NJM4580L-D  | ANALOGUE IC | EE1E3        | 5        |
| IC201    |          |           | NJM4580L-D  | ANALOGUE IC | TT1          | 5        |
| IC202    |          |           | M61516FP    | ANALOGUE IC |              |          |
| IC206    |          |           | NJM4565D    | ANALOGUE IC |              |          |
| IC301    |          |           | STK413-020A | HYBRID IC   |              |          |

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|---|------------|-------------|---------------------|--|--------------|----------|
| IC301   |            |             | * STK413-220A       | HYBRID IC                                |              | 5        |
| IC301   |            |             | STK443-070          | HYBRID IC                                |              | 4        |
| IC401   |            |             | * STK412-020A       | HYBRID IC                                |              | 5        |
| IC401   |            |             | * STK412-220A       | HYBRID IC                                |              | 5        |
| IC401   |            |             | * STK442-070        | HYBRID IC                                |              | 4        |
| ▲ IC607   |            |             | NJM2279D            | ANALOGUE IC                              |              |          |
| Q113  |            |             | 2SB1640             | TRANSISTOR                               |              |          |
| Q114  |            |             | 2SC1740S(Q,R)       | TRANSISTOR                               |              |          |
| Q114  |            |             | 2SC2785(F,E)        | TRANSISTOR                               |              |          |
| Q201  |            |             | 2SC1845(F,E)        | TRANSISTOR                               |              |          |
| ▲ Q203  |            |             | 2SA992(F,E)         | TRANSISTOR                               |              |          |
| Q301-306  |            |             | 2SC2878(B)          | TRANSISTOR                               |              |          |
| Q307,308  |            |             | 2SA992(F,E)         | TRANSISTOR                               |              |          |
| Q309-315  |            |             | 2SC1845(F,E)        | TRANSISTOR                               |              |          |
| Q316  |            |             | 2SA992(F,E)         | TRANSISTOR                               |              |          |
| Q317,318  |            |             | 2SC2878(B)          | TRANSISTOR                               |              |          |
| Q319  |            |             | 2SA992(F,E)         | TRANSISTOR                               |              |          |
| Q401  |            |             | 2SC1845(F,E)        | TRANSISTOR                               |              |          |
| Q402  |            |             | 2SA1535A            | TRANSISTOR                               |              |          |
| Q403  |            |             | 2SC3944A            | TRANSISTOR                               |              |          |
| Q404  |            |             | 2SC1845(F,E)        | TRANSISTOR                               |              |          |
| Q405  |            |             | 2SA992(F,E)         | TRANSISTOR                               |              |          |
| Q406  |            |             | 2SB1640             | TRANSISTOR                               |              |          |
| Q407,408  |            |             | 2SC1845(F,E)        | TRANSISTOR                               |              |          |
| Q410,411  |            |             | DTC113ZSA           | DIGITAL TRANSISTOR                       |              |          |
| Q410,411  |            |             | UN4219              | DIGITAL TRANSISTOR                       |              |          |
| Q412  |            |             | 2SC1740S(Q,R)       | TRANSISTOR                               |              |          |
| Q412  |            |             | 2SC2785(F,E)        | TRANSISTOR                               |              |          |
| <b>AUDIO (X09-6610-10)</b>                                      |            |             |                     |  |              |          |
| C1 ,2   |            |             | CE04LW2A100M        | ELECTRO                                  | 10UF         | 100WV    |
| C101  |            |             | CC45FSL1H331J       | CERAMIC                                  | 330PF        | J        |
| C102  |            |             | CC45FSL1H101J       | CERAMIC                                  | 100PF        | J        |
| C103,104  |            |             | CC45FCH1H270J       | CERAMIC                                  | 27PF         | J        |
| C105  |            |             | CE04KW1H2R2M        | ELECTRO                                  | 2.2UF        | 50WV     |
| C106  |            |             | CK45FF1H103Z        | CERAMIC                                  | 0.010UF      | Z        |
| C107  |            |             | CE04KW1A470M        | ELECTRO                                  | 47UF         | 10WV     |
| C108  |            |             | CK45FB1H561K        | CERAMIC                                  | 560PF        | K        |
| C109  |            |             | CK45FF1H103Z        | CERAMIC                                  | 0.010UF      | Z        |
| C110  |            |             | CK45FF1H103Z        | CERAMIC                                  | 0.010UF      | Z        |
| C125  |            |             | CE04KW1H100M        | ELECTRO                                  | 10UF         | 50WV     |
| C126  |            |             | CK45FF1H103Z        | CERAMIC                                  | 0.010UF      | Z        |
| C127  |            |             | CC45FSL1H270J       | CERAMIC                                  | 27PF         | J        |
| C128  |            |             | CE04KW1H100M        | ELECTRO                                  | 10UF         | 50WV     |
| C129  |            |             | CE04KW1E332M        | ELECTRO                                  | 3300UF       | 25WV     |
| C130  |            |             | C91-1488-05         | MF                                       | 6800PF       | 250VAC   |
| C131  |            |             | CK45FF1H103Z        | CERAMIC                                  | 0.010UF      | Z        |
| C132  |            |             | C91-1635-05         | FILM                                     | 0.068UF      | 275WV    |
| C133  |            |             | CE04KW1H100M        | ELECTRO                                  | 10UF         | 50WV     |
| C134  |            |             | CE04KW1J330M        | ELECTRO                                  | 33UF         | 63WV     |
| C135  |            |             | CC45FSL1H100D       | CERAMIC                                  | 10PF         | D        |
| C137  |            |             | CK45FF1H103Z        | CERAMIC                                  | 0.010UF      | Z        |
| C138,139  |            |             | CE04KW1E101M        | ELECTRO                                  | 100UF        | 25WV     |
| C140  |            |             | CE04KW1E222M        | ELECTRO                                  | 2200UF       | 25WV     |
| C141  |            |             | CE04KW1E471M        | ELECTRO                                  | 470UF        | 25WV     |
| L : Scandinavia<br>Y : PX(Far East,Hawaii)<br>Y : AAFES(Europe) | K : USA    | P : Canada  | R : Mexico          | C : China                                | I : Malaysia |          |
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# KRF-V4060D/V5060D/V5560D/VR-605/615

## PARTS LIST

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\* New Parts

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18

| Ref. No  | Add-<br>ress | New<br>Parts | Parts No.     | Description |         | Desti-<br>nation | Re-<br>marks |
|----------|--------------|--------------|---------------|-------------|---------|------------------|--------------|
| C142,143 |              |              | C90-5747-05   | ELECTRO     | 4700UF  | 75WV             |              |
| C144,145 |              |              | C90-5746-05   | ELECTRO     | 3300UF  | 42WV             |              |
| C146,147 |              |              | C91-1422-05   | MP          | 0.10UF  | 250WV            |              |
| C148-151 |              |              | C91-1573-05   | MP-C        | 0.10UF  | J                |              |
| C156     |              |              | CC45FSL1H330J | CERAMIC     | 33PF    | J                |              |
| C157     |              |              | CC45FSL1H270J | CERAMIC     | 27PF    | J                |              |
| C201,202 |              |              | CC45FSL1H221J | CERAMIC     | 220PF   | J                |              |
| C221,222 |              |              | CC45FSL1H221J | CERAMIC     | 220PF   | J                |              |
| C225,226 |              |              | CC45FSL1H221J | CERAMIC     | 220PF   | J                |              |
| C229,230 |              |              | CC45FSL1H221J | CERAMIC     | 220PF   | J                |              |
| C233,234 |              |              | CC45FSL1H221J | CERAMIC     | 220PF   | J                |              |
| C237,238 |              |              | CC45FSL1H221J | CERAMIC     | 220PF   | J                |              |
| C241,242 |              |              | CC45FSL1H221J | CERAMIC     | 220PF   | J                |              |
| C245,246 |              |              | CC45FSL1H221J | CERAMIC     | 220PF   | J                |              |
| C251,252 |              |              | CC45FSL1H221J | CERAMIC     | 220PF   | J                | KP           |
| C255,256 |              |              | CC45FSL1H221J | CERAMIC     | 220PF   | J                | KP           |
| C259,260 |              |              | CC45FSL1H221J | CERAMIC     | 220PF   | J                | KP           |
| C265,266 |              |              | CE04RW1H4R7M  | ELECTRO     | 4.7UF   | 50WV             |              |
| C268-271 |              |              | CC45FSL1H101J | CERAMIC     | 100PF   | J                |              |
| C272     |              |              | CE04KW1H2R2M  | ELECTRO     | 2.2UF   | 50WV             |              |
| C273     |              |              | CK45FB1H471K  | CERAMIC     | 470PF   | K                |              |
| C274     |              |              | CC45FSL1H331J | CERAMIC     | 330PF   | J                |              |
| C275     |              |              | CE04KW1A470M  | ELECTRO     | 47UF    | 10WV             |              |
| C276     |              |              | CE04KW1A101M  | ELECTRO     | 100UF   | 10WV             |              |
| C278     |              |              | CE04KW1A101M  | ELECTRO     | 100UF   | 10WV             |              |
| C279     |              |              | CE04KW1A470M  | ELECTRO     | 47UF    | 10WV             |              |
| C280     |              |              | CE04KW1A101M  | ELECTRO     | 100UF   | 10WV             |              |
| C281     |              |              | CC45FSL1H101J | CERAMIC     | 100PF   | J                |              |
| C283-288 |              |              | CC45FSL1H101J | CERAMIC     | 100PF   | J                |              |
| C290-300 |              |              | CC45FSL1H101J | CERAMIC     | 100PF   | J                |              |
| C301,302 |              |              | CE04KW1H2R2M  | ELECTRO     | 2.2UF   | 50WV             |              |
| C303,304 |              |              | CK45FB1H471K  | CERAMIC     | 470PF   | K                |              |
| C305     |              |              | CK45FB1H391K  | CERAMIC     | 390PF   | K                |              |
| C306     |              |              | CC45FSL1H331J | CERAMIC     | 330PF   | J                |              |
| C307     |              |              | CE04KW1H101M  | ELECTRO     | 100UF   | 50WV             |              |
| C308     |              |              | CQ93FMG1H473J | MYLAR       | 0.047UF | J                |              |
| C309,310 |              |              | CE04KW1A101M  | ELECTRO     | 100UF   | 10WV             |              |
| C311     |              |              | CE04RW1V4R7M  | ELECTRO     | 4.7UF   | 35WV             |              |
| C312     |              |              | CQ93FMG1H473J | MYLAR       | 0.047UF | J                |              |
| C313     |              |              | CC45FSL1H101J | CERAMIC     | 100PF   | J                |              |
| C316,317 |              |              | CC45FSL1H100D | CERAMIC     | 10PF    | D                |              |
| C318     |              |              | CE04KW1H101M  | ELECTRO     | 100UF   | 50WV             |              |
| C319,320 |              |              | CE04KW2A101M  | ELECTRO     | 100UF   | 100WV            |              |
| C321,322 |              |              | CK45FF1H472Z  | CERAMIC     | 4700PF  | Z                |              |
| C323-328 |              |              | C91-1573-05   | MP-C        | 0.10UF  | J                |              |
| C329     |              |              | CK45FF1H472Z  | CERAMIC     | 4700PF  | Z                |              |
| C330     |              |              | CC45FSL1H100D | CERAMIC     | 10PF    | D                |              |
| C332     |              |              | CE04KW1A101M  | ELECTRO     | 100UF   | 10WV             |              |
| C333     |              |              | CE04KW1H4R7M  | ELECTRO     | 4.7UF   | 50WV             |              |
| C334     |              |              | CE04KW1H010M  | ELECTRO     | 1.0UF   | 50WV             |              |
| C335     |              |              | CE04LW1H100M  | ELECTRO     | 10UF    | 50WV             |              |
| C336     |              |              | CE04KW1A221M  | ELECTRO     | 220UF   | 10WV             |              |
| C337     |              |              | CE04HW1E100M  | NP-ELEC     | 10UF    | 25WV             |              |
| C338     |              |              | CE04KW1E470M  | ELECTRO     | 47UF    | 25WV             |              |
| C339-349 |              |              | CC45FSL1H101J | CERAMIC     | 100PF   | J                |              |

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|----------|--------------|--------------|---------------|----------------------|---------|------------------|--------------|
| C350     |              |              | CQ93FMG1H122J | MYLAR                | 1200PF  | J                |              |
| C351     |              |              | CQ93FMG1H332J | MYLAR                | 3300PF  | J                |              |
| C352,353 |              |              | CE04KW1H2R2M  | ELECTRO              | 2.2UF   | 50WV             |              |
| C354     |              |              | CK45FB1H471K  | CERAMIC              | 470PF   | K                |              |
| C355,356 |              |              | CK45FB1H102K  | CERAMIC              | 1000PF  | K                |              |
| C357     |              |              | CE04KW1H2R2M  | ELECTRO              | 2.2UF   | 50WV             |              |
| C358     |              |              | CQ93FMG1H104J | MYLAR                | 0.10UF  | J                |              |
| C359-364 |              |              | CE04KW1H4R7M  | ELECTRO              | 4.7UF   | 50WV             |              |
| C365-370 |              |              | CE04KW1H2R2M  | ELECTRO              | 2.2UF   | 50WV             |              |
| C371     |              |              | CQ93FMG1H104J | MYLAR                | 0.10UF  | J                |              |
| C372     |              |              | CQ93FMG1H332J | MYLAR                | 3300PF  | J                |              |
| C373,374 |              |              | CQ93FMG1H104J | MYLAR                | 0.10UF  | Z                |              |
| C375     |              |              | CK45FF1H103Z  | CERAMIC              | 0.010UF | Z                |              |
| C376,377 |              |              | CE04LW1H220M  | ELECTRO              | 22UF    | 50WV             |              |
| C378     |              |              | CE04KW1H010M  | ELECTRO              | 1.0UF   | 50WV             |              |
| C380     |              |              | CE04RW1V4R7M  | ELECTRO              | 4.7UF   | 35WV             |              |
| C384-386 |              |              | CK45FB1H471K  | CERAMIC              | 470PF   | K                |              |
| C401     |              |              | CE04KW1A101M  | ELECTRO              | 100UF   | 10WV             |              |
| C403,404 |              |              | CE04KW2A100M  | ELECTRO              | 10UF    | 100WV            |              |
| C405     |              |              | CC45FSL1H470J | CERAMIC              | 47PF    | J                |              |
| C406,407 |              |              | CE04KW1H2R2M  | ELECTRO              | 2.2UF   | 50WV             |              |
| C408,409 |              |              | CK45FB1H471K  | CERAMIC              | 470PF   | K                |              |
| C410,411 |              |              | CC45FSL1H331J | CERAMIC              | 330PF   | J                |              |
| C412,413 |              |              | CE04KW1A101M  | ELECTRO              | 100UF   | 10WV             |              |
| C416,417 |              |              | CC45FSL1H100D | CERAMIC              | 10PF    | D                |              |
| C424,425 |              |              | CK45FF1H472Z  | CERAMIC              | 4700PF  | Z                |              |
| C426-429 |              |              | C91-1573-05   | MP-C                 | 0.10UF  | J                |              |
| C430     |              |              | CK45FF1H472Z  | CERAMIC              | 4700PF  | Z                |              |
| C431     |              |              | CC45FSL1H100D | CERAMIC              | 10PF    | D                |              |
| C433     |              |              | CE04KW1A101M  | ELECTRO              | 100UF   | 10WV             |              |
| C434     |              |              | CC45FSL1H331J | CERAMIC              | 330PF   | J                |              |
| C435     |              |              | CK45FB1H471K  | CERAMIC              | 470PF   | K                |              |
| C436     |              |              | CE04KW1H2R2M  | ELECTRO              | 2.2UF   | 50WV             |              |
| C437,438 |              |              | C91-1573-05   | MP-C                 | 0.10UF  | J                |              |
| C439-443 |              |              | CK45FB1H222K  | CERAMIC              | 2200PF  | K                |              |
| C444     |              |              | CC45FSL1H221J | CERAMIC              | 220PF   | J                |              |
| C445     |              |              | CC45FSL1H560J | CERAMIC              | 56PF    | J                |              |
| C446     |              |              | CK45FB1H222K  | CERAMIC              | 2200PF  | K                |              |
| C638-642 |              |              | CC45FSL1H470J | CERAMIC              | 47PF    | J                |              |
| C643-645 |              |              | CE04KW1E470M  | ELECTRO              | 47UF    | 25WV             |              |
| C648     |              |              | CE04RW1C100M  | ELECTRO              | 10UF    | 16WV             |              |
| C652     |              |              | CE04RW1C100M  | ELECTRO              | 10UF    | 16WV             |              |
| C826,827 |              |              | CK45FB1H471K  | CERAMIC              | 470PF   | K                |              |
| CN101    |              |              | E40-8481-05   | FLAT CABLE CONNECTOR |         |                  |              |
| CN102    |              |              | E40-8502-05   | FLAT CABLE CONNECTOR |         |                  |              |
| CN103    |              |              | E40-8481-05   | FLAT CABLE CONNECTOR |         |                  |              |
| CN104    |              |              | E40-4428-05   | PIN ASSY             |         |                  | YM           |
| CN105    |              |              | E40-4425-05   | PIN ASSY             |         |                  |              |
| CN112    |              |              | E40-4245-05   | PIN ASSY             |         |                  | EE3T1        |
| CN114    |              |              | E40-4245-05   | PIN ASSY             |         |                  | KPXH         |
| CN115    |              |              | E40-3262-05   | PIN ASSY             |         |                  | EE3T1        |
| CN115    |              |              | E40-4245-05   | PIN ASSY             |         |                  | YMXH         |
| CN118    |              |              | E40-4245-05   | PIN ASSY             |         |                  | YM           |

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## PARTS LIST

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| Ref. No   | Add-ress | New Parts | Parts No.    | Description                 |      |   | Desti-nation | Re-marks |
|-----------|----------|-----------|--------------|-----------------------------|------|---|--------------|----------|
| CN201     |          | *         | E40-8482-05  | FLAT CABLE CONNECTOR        |      |   |              |          |
| CN806     |          |           | E40-3247-05  | PIN ASSY                    |      |   |              |          |
| J201      |          | *         | E63-1256-05  | PIN JACK                    |      |   |              |          |
| J202      |          | *         | E63-1258-05  | PIN JACK                    |      |   |              |          |
| J203      |          | *         | E63-1256-05  | PIN JACK                    |      |   | KP           |          |
| J203      |          | *         | E63-1258-05  | PIN JACK                    |      |   | EE3T1        |          |
| J203      |          | *         | E63-1258-05  | PIN JACK                    |      |   | YMXH         |          |
| J204      |          |           | E63-1260-05  | PIN JACK                    |      |   | KP           |          |
| J205      |          |           | E03-0148-05  | AC OUTLET                   |      |   | KPY          |          |
| J206      |          |           | E03-0149-05  | AC OUTLET                   |      |   | MEE3         |          |
| J206      |          |           | E03-0310-05  | AC OUTLET                   |      |   | T1           |          |
| J206      |          |           | E03-0325-05  | AC OUTLET                   |      |   | XH           |          |
| J401      |          | *         | E70-0156-05  | LOCK TERMINAL BOARD         |      |   |              |          |
| J403      |          | *         | E70-0154-05  | LOCK TERMINAL BOARD         |      |   |              |          |
| J603      |          | *         | E63-1254-05  | PIN JACK                    |      |   |              |          |
| J604      |          | *         | E63-1255-05  | PIN JACK                    |      |   |              |          |
| J801      |          |           | E11-0271-05  | PHONE JACK (METAL SLEEVE)   |      |   |              |          |
| F101      |          |           | F05-3121-05  | FUSE (SEMKO) (250V T3.15AL) |      |   | EE3T1        |          |
| F101      |          |           | F05-3121-05  | FUSE (SEMKO) (250V T3.15AL) |      |   | YMXH         |          |
| F101      |          |           | F50-0077-05  | FUSE(5X20)                  |      |   | KP           |          |
| F102      |          |           | F06-1022-05  | FUSE (SEMKO) (250V T1AL)    |      |   | EE3T1        |          |
| F102      |          |           | F06-1022-05  | FUSE (SEMKO) (250V T1AL)    |      |   | MX           |          |
| F103      |          |           | F05-3121-05  | FUSE (SEMKO) (250V T3.15AL) |      |   | YM           |          |
| CN108,109 |          |           | J13-0075-05  | FUSE CLIP                   |      |   | EE3T1        |          |
| CN108,109 |          |           | J13-0075-05  | FUSE CLIP                   |      |   | MX           |          |
| CN110,111 |          |           | J13-0075-05  | FUSE CLIP                   |      |   |              |          |
| CN116,117 |          |           | J13-0075-05  | FUSE CLIP                   |      |   |              |          |
| E11 -14   |          |           | J11-0809-05  | WIRE CLAMPER                |      |   | YM           |          |
| L301-303  |          |           | L39-1373-05  | PHASE COMPENSATION COIL     |      |   |              |          |
| L401-403  |          |           | L39-1373-05  | PHASE COMPENSATION COIL     |      |   |              |          |
| T101      |          |           | L07-2758-05  | POWER TRANSFORMER           |      |   | EE3T1        |          |
| T101      |          |           | L07-2758-05  | POWER TRANSFORMER           |      |   | KPXH         |          |
| T101      |          |           | L07-2761-05  | POWER TRANSFORMER           |      |   | EE3T1        |          |
| T101      |          |           | L07-2761-05  | POWER TRANSFORMER           |      |   |              |          |
| T101      |          |           | L07-2805-05  | POWER TRANSFORMER           |      |   |              |          |
| X101      |          |           | L77-2002-05  | CRYSTAL RESONATOR(4.332MHZ) |      |   |              |          |
| R123      |          |           | RD14NB2E1R0J | RD                          | 1    | J | 1/4W         |          |
| R124      |          |           | RS14KB3A221J | FL-PROOF RS                 | 220  | J | 1W           |          |
| R125      |          |           | RD14NB2E270J | RD                          | 27   | J | 1/4W         |          |
| R126      |          |           | RD14NB2E101J | RD                          | 100  | J | 1/4W         |          |
| R127      |          |           | RD14NB2E822J | RD                          | 8.2K | J | 1/4W         |          |
| R132      |          |           | R92-1844-05  | CARBON                      | 3.3M | J | 1/2W         |          |
| R141,142  |          |           | RD14NB2E1R0J | RD                          | 1    | J | 1/4W         |          |
| R316,317  |          |           | RS14KB3A472J | FL-PROOF RS                 | 4.7K | J | 1W           |          |
| R334,335  |          |           | RD14NB2E4R7J | RD                          | 4.7  | J | 1/4W         |          |
| R338-341  |          |           | RS14KB3DR22J | FL-PROOF RS                 | 0.22 | J | 2W           |          |
| R342,343  |          |           | RS14KB3D4R7J | FL-PROOF RS                 | 4.7  | J | 2W           |          |
| R345      |          |           | RS14KB3D4R7J | FL-PROOF RS                 | 4.7  | J | 2W           |          |
| R347      |          |           | RD14NB2E4R7J | RD                          | 4.7  | J | 1/4W         |          |
| R348,349  |          |           | RS14KB3DR22J | FL-PROOF RS                 | 0.22 | J | 2W           |          |
| R365      |          |           | RD14NB2E561J | RD                          | 560  | J | 1/4W         |          |
| R410      |          |           | RD14NB2E103J | RD                          | 10K  | J | 1/4W         |          |
| R411      |          |           | RD14NB2E101J | RD                          | 100  | J | 1/4W         |          |

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A

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|----------|----------|-----------|--------------|----------------|------|---|--------------|----------|
| R414     |          |           | RD14NB2E101J | RD             | 100  | J | 1/4W         |          |
| R415     |          |           | RD14NB2E103J | RD             | 10K  | J | 1/4W         |          |
| R438,439 |          |           | RS14KB3D391J | FL-PROOF RS    | 390  | J | 2W           |          |
| R452,453 |          |           | RS14KB3A472J | FL-PROOF RS    | 4.7K | J | 1W           |          |
| R460-463 |          |           | RS14KB3DR22J | FL-PROOF RS    | 0.22 | J | 2W           |          |
| R466,467 |          |           | RD14NB2E4R7J | RD             | 4.7  | J | 1/4W         |          |
| R468,469 |          |           | RS14KB3D4R7J | FL-PROOF RS    | 4.7  | J | 2W           |          |
| R473,474 |          |           | RS14KB3DR22J | FL-PROOF RS    | 0.22 | J | 2W           |          |
| R475     |          |           | RD14NB2E4R7J | RD             | 4.7  | J | 1/4W         |          |
| R476     |          |           | RS14KB3D4R7J | FL-PROOF RS    | 4.7  | J | 2W           |          |
| R478-480 |          |           | RS14KB3A151J | FL-PROOF RS    | 150  | J | 1W           |          |
| K101     |          |           | S76-0099-05  | MAGNETIC RELAY |      |   | KP           |          |
| K101     |          |           | S76-0102-05  | MAGNETIC RELAY |      |   | EE3T1        |          |
| K101     |          |           | S76-0102-05  | MAGNETIC RELAY |      |   | YMXH         |          |
| K401-403 |          |           | S76-0097-05  | MAGNETIC RELAY |      |   |              |          |
| S101     |          |           | S62-0001-05  | SLIDE SWITCH   |      |   | YM           |          |
| S102     |          |           | S68-0107-05  | PUSH SWITCH    |      |   | EE3T1        |          |
| S102     |          |           | S68-0107-05  | PUSH SWITCH    |      |   | YMXH         |          |
| D113     |          | *         | RB441Q-40    | DIODE          |      |   |              |          |
| D114-116 |          |           | HSS104A      | DIODE          |      |   |              |          |
| D114-116 |          |           | 1SS133       | DIODE          |      |   |              |          |
| D117     |          |           | STZB20(4101) | DIODE          |      |   |              |          |
| D118     |          |           | HZS16N(B2)   | ZENER DIODE    |      |   |              |          |
| D118     |          |           | MTZJ16(B)    | ZENER DIODE    |      |   |              |          |
| D119     |          |           | HZS15N(B2)   | ZENER DIODE    |      |   |              |          |
| D119     |          |           | MTZJ15(B)    | ZENER DIODE    |      |   |              |          |
| D120     |          |           | D25BA20F03   | DIODE          |      |   |              |          |
| D121,122 |          |           | D5SBA20F03   | DIODE          |      |   |              |          |
| D123,124 |          |           | HSS104A      | DIODE          |      |   |              |          |
| D123,124 |          |           | 1SS133       | DIODE          |      |   |              |          |
| D201     |          |           | HZS6.8N(B2)  | ZENER DIODE    |      |   |              |          |
| D201     |          |           | MTZJ6.8(B)   | ZENER DIODE    |      |   |              |          |
| D202     |          |           | HZS5.1N(B2)  | ZENER DIODE    |      |   |              |          |
| D202     |          |           | MTZJ5.1(B)   | ZENER DIODE    |      |   |              |          |
| D203     |          |           | HZS6.8N(B2)  | ZENER DIODE    |      |   |              |          |
| D203     |          |           | MTZJ6.8(B)   | ZENER DIODE    |      |   |              |          |
| D215     |          |           | HSS104A      | DIODE          |      |   |              |          |
| D215     |          |           | 1SS133       | DIODE          |      |   |              |          |
| D301,302 |          |           | HZS15N(B2)   | ZENER DIODE    |      |   |              |          |
| D301,302 |          |           | MTZJ15(B)    | ZENER DIODE    |      |   |              |          |
| D303,304 |          |           | HSS104A      | DIODE          |      |   |              |          |
| D303,304 |          |           | 1SS133       | DIODE          |      |   |              |          |
| D305,306 |          |           | HZS10N(B2)   | ZENER DIODE    |      |   |              |          |
| D305,306 |          |           | MTZJ11(B)    | ZENER DIODE    |      |   |              |          |
| D307     |          |           | HZS3.9N(B2)  | ZENER DIODE    |      |   |              |          |
| D307     |          |           | MTZJ3.9(B)   | ZENER DIODE    |      |   |              |          |
| D308-310 |          |           | HSS104A      | DIODE          |      |   |              |          |
| D308-310 |          |           | 1SS133       | DIODE          |      |   |              |          |
| D311,312 |          |           | HZS3.9N(B2)  | ZENER DIODE    |      |   |              |          |

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A

△ indicates safety critical components .

# KRF-V4060D/V5060D/V5560D/VR-605/615

## PARTS LIST

\* New Parts

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| Ref. No  | Add-ress | New Parts | Parts No.     | Description | Desti-nation | Re-marks |
|----------|----------|-----------|---------------|-------------|--------------|----------|
| D311,312 |          |           | MTZJ3.9(B)    | ZENER DIODE |              |          |
| D313     |          |           | HSS104A       | DIODE       |              |          |
| D313     |          |           | 1SS133        | DIODE       |              |          |
| D314     |          |           | HZS3.9N(B2)   | ZENER DIODE |              |          |
| D314     |          |           | MTZJ3.9(B)    | ZENER DIODE |              |          |
| D315     |          |           | HSS104A       | DIODE       |              |          |
| D315     |          |           | 1SS133        | DIODE       |              |          |
| D316     |          |           | HZS3.9N(B2)   | ZENER DIODE |              |          |
| D316     |          |           | MTZJ3.9(B)    | ZENER DIODE |              |          |
| D317,318 |          |           | HSS104A       | DIODE       |              |          |
| D317,318 |          |           | 1SS133        | DIODE       |              |          |
| D319     |          |           | HZS11N(B2)    | ZENER DIODE |              |          |
| D319     |          |           | HZS15N(B2)    | ZENER DIODE |              |          |
| D319     |          |           | MTZJ11(B)     | ZENER DIODE |              |          |
| D319     |          |           | MTZJ15(B)     | ZENER DIODE |              |          |
| D320     |          |           | HZS13N(B2)    | ZENER DIODE |              |          |
| D320     |          |           | HZS15N(B2)    | ZENER DIODE |              |          |
| D320     |          |           | MTZJ13(B)     | ZENER DIODE |              |          |
| D320     |          |           | MTZJ15(B)     | ZENER DIODE |              |          |
| D401,402 |          |           | HZS15N(B2)    | ZENER DIODE |              |          |
| D401,402 |          |           | MTZJ15(B)     | ZENER DIODE |              |          |
| D403,404 |          |           | HSS104A       | DIODE       |              |          |
| D403,404 |          |           | 1SS133        | DIODE       |              |          |
| D406-408 |          |           | HSS104A       | DIODE       |              |          |
| D406-408 |          |           | 1SS133        | DIODE       |              |          |
| D602,603 |          |           | HZS5.6N(B2)   | ZENER DIODE |              |          |
| D602,603 |          |           | MTZJ5.6(B)    | ZENER DIODE |              |          |
| D999     |          |           | HSS104A       | DIODE       |              |          |
| D999     |          |           | 1SS133        | DIODE       |              |          |
| IC101    |          |           | BU1923        | ANALOGUE IC |              |          |
| △ IC105  |          |           | BA05T         | ANALOGUE IC |              |          |
| △ IC106  |          |           | KIA7812API    | ANALOGUE IC |              |          |
| △ IC107  |          |           | KIA7912PI     | ANALOGUE IC |              |          |
| △ IC202  |          |           | M61516FP      | ANALOGUE IC |              |          |
| △ IC206  |          |           | NJM4565D      | ANALOGUE IC |              |          |
| △ IC301  |          | *         | STK413-020A   | HYBRID IC   |              |          |
| △ IC301  |          | *         | STK413-220A   | HYBRID IC   |              |          |
| △ IC401  |          | *         | STK413-020A   | HYBRID IC   |              |          |
| △ IC401  |          | *         | STK413-220A   | HYBRID IC   |              |          |
| △ IC607  |          |           | NJM2279D      | ANALOGUE IC |              |          |
| △ Q113   |          |           | 2SB1640       | TRANSISTOR  |              |          |
| △ Q114   |          |           | 2SC1740S(Q,R) | TRANSISTOR  |              |          |
| △ Q114   |          |           | 2SC2785(F,E)  | TRANSISTOR  |              |          |
| △ Q201   |          |           | 2SC1845(F,E)  | TRANSISTOR  |              |          |
| △ Q203   |          |           | 2SA992(F,E)   | TRANSISTOR  |              |          |
| Q301-306 |          |           | 2SC2878(B)    | TRANSISTOR  |              |          |
| Q307,308 |          |           | 2SA992(F,E)   | TRANSISTOR  |              |          |
| Q309-315 |          |           | 2SC1845(F,E)  | TRANSISTOR  |              |          |
| Q316     |          |           | 2SA992(F,E)   | TRANSISTOR  |              |          |
| Q317,318 |          |           | 2SC2878(B)    | TRANSISTOR  |              |          |
| Q319     |          |           | 2SA992(F,E)   | TRANSISTOR  |              |          |
| Q401     |          |           | 2SC1845(F,E)  | TRANSISTOR  |              |          |
| Q402     |          |           | 2SA1535A      | TRANSISTOR  |              |          |
| Q403     |          |           | 2SC3944A      | TRANSISTOR  |              |          |
| Q404     |          |           | 2SC1845(F,E)  | TRANSISTOR  |              |          |

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| Ref. No                      | Add-ress | New Parts | Parts No.     | Description          | Desti-nation | Re-marks |
|------------------------------|----------|-----------|---------------|----------------------|--------------|----------|
| Q405                         |          |           | 2SA992(F,E)   | TRANSISTOR           |              |          |
| Q406                         |          |           | 2SB1640       | TRANSISTOR           |              |          |
| Q407-409                     |          |           | 2SC1845(F,E)  | TRANSISTOR           |              |          |
| Q410,411                     |          |           | DTC113ZSA     | DIGITAL TRANSISTOR   |              |          |
| Q410,411                     |          |           | UN4219        | DIGITAL TRANSISTOR   |              |          |
| Q412                         |          |           | 2SC1740S(Q,R) | TRANSISTOR           |              |          |
| Q412                         |          |           | 2SC2785(F,E)  | TRANSISTOR           |              |          |
| <b>DISPLAY (X14-7470-10)</b> |          |           |               |                      |              |          |
| D805-808                     |          |           | B30-2545-05   | LED(RED3(160))       |              |          |
| C801                         |          |           | CE04RW1H330M  | ELECTRO              | 33UF         | 50WV     |
| C802,803                     |          |           | CE04RW1H010M  | ELECTRO              | 1.0UF        | 50WV     |
| C804                         |          |           | CE04LW1H470M  | ELECTRO              | 47UF         | 50WV     |
| C805                         |          |           | CE04RW1A101M  | ELECTRO              | 100UF        | 10WV     |
| C806                         |          |           | CE04RW1E470M  | ELECTRO              | 47UF         | 25WV     |
| C807                         |          |           | CE04PW1H100M  | ELECTRO              | 10UF         | 50WV     |
| C809                         |          |           | CE04RW1H010M  | ELECTRO              | 1.0UF        | 50WV     |
| C810                         |          |           | C90-1826-05   | BACKUP-C             | 0.047F       | 5.5WV    |
| C811                         |          |           | CE04RW1A101M  | ELECTRO              | 100UF        | 10WV     |
| C812                         |          |           | CE04HW1H100M  | NP-ELEC              | 10UF         | 50WV     |
| C813                         |          |           | CK45FF1H103Z  | CERAMIC              | 0.010UF      | Z        |
| C814                         |          |           | CC45FSL1H101J | CERAMIC              | 100PF        | J        |
| C815,816                     |          |           | CK45FF1H103Z  | CERAMIC              | 0.010UF      | Z        |
| C817                         |          |           | CC45FSL1H101J | CERAMIC              | 100PF        | J        |
| C818,819                     |          |           | CK45FF1H103Z  | CERAMIC              | 0.010UF      | Z        |
| C820,821                     |          |           | C91-0769-05   | CERAMIC              | 0.010UF      | K        |
| C822-825                     |          |           | CK45FF1H103Z  | CERAMIC              | 0.010UF      | Z        |
| C828,829                     |          |           | CK45FF1H103Z  | CERAMIC              | 0.010UF      | Z        |
| C830                         |          |           | CC45FSL1H101J | CERAMIC              | 100PF        | J        |
| C831,832                     |          |           | CK45FF1H103Z  | CERAMIC              | 0.010UF      | Z        |
| C833                         |          |           | CC45FSL1H101J | CERAMIC              | 100PF        | J        |
| C834                         |          |           | CQ93FMG1H103J | MYLAR                | 0.010UF      | J        |
| C835                         |          |           | CK45FF1H103Z  | CERAMIC              | 0.010UF      | Z        |
| C836-839                     |          |           | C91-0745-05   | CERAMIC              | 100PF        | K        |
| C840                         |          |           | CQ93FMG1H104J | MYLAR                | 0.10UF       | J        |
| C841                         |          |           | C91-0745-05   | CERAMIC              | 100PF        | YM       |
| C842                         |          |           | CE04PW1H100M  | ELECTRO              | 10UF         | 50WV     |
| C843                         |          |           | CE04LW1H2R2M  | ELECTRO              | 2.2UF        | 50WV     |
| C844,845                     |          |           | CK45FF1H103Z  | CERAMIC              | 0.010UF      | Z        |
| C846                         |          |           | CQ93FMG1H103J | MYLAR                | 0.010UF      | J        |
| C847,848                     |          |           | C91-0745-05   | CERAMIC              | 100PF        | D        |
| C849                         |          |           | CC45FSL1H100D | CERAMIC              | 10PF         |          |
| CN801                        |          |           | E40-8502-05   | FLAT CABLE CONNECTOR |              |          |
| CN802                        |          |           | E40-8501-05   | FLAT CABLE CONNECTOR |              |          |
| CN803                        |          |           | E40-8503-05   | FLAT CABLE CONNECTOR |              |          |
| CN805                        |          |           | E40-3263-05   | PIN ASSY             |              |          |
| E1                           |          |           | J11-0808-05   | WIRE CLAMPER         |              |          |
| E2                           |          |           | J11-0809-05   | WIRE CLAMPER         |              |          |
| E4                           |          |           | J11-0808-05   | WIRE CLAMPER         |              |          |
| X800                         |          | *         | L78-0747-05   | RESONATOR            | (4MHZ)       |          |
| X801                         |          | *         | L78-0725-05   | RESONATOR            | (8.38MHZ)    |          |
| CP801                        |          |           | R90-0500-05   | MULTI-COMP           | 100KX6       | J        |
| CP802                        |          |           | R90-0855-05   | MULTI-COMP           | 100KX5       | J        |
|                              |          |           |               |                      | 1/4W         |          |

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|---|--------------|--------------|--|---|---------------|---|------|------|------------------|--------------|
| CP803<br>R849                                   |              |              | R90-0493-05<br>RD14NB2E2R2J  | MULTI-COMP<br>RD  | 100KX9<br>2.2 | J | 1/6W |      |                  |              |
| S801-812<br>S801-812                            |              |              | S70-0031-05<br>S70-0086-05   | TACT SWITCH<br>TACT SWITCH  |               |   |      |      |                  |              |
| S813,814<br>S815                                |              |              | T99-0666-05<br>T99-0664-05   | ROTARY ENCODER<br>ROTARY ENCODER                                      |               |   |      |      |                  |              |
| D801<br>D801<br>D802-804<br>D802-804<br>D809    |              |              | MTZJ6.2(B)<br>RD6.2ES(B)<br>HSS104A<br>1SS133<br>HSS104A                   | ZENER DIODE<br>ZENER DIODE<br>DIODE<br>DIODE<br>DIODE                 |               |   |      |      |                  |              |
| D809<br>D810<br>D810<br>D811<br>D811            |              |              | 1SS133<br>HSS104A<br>1SS133<br>HSS104A<br>1SS133                           | DIODE<br>DIODE<br>DIODE<br>DIODE<br>DIODE                             |               |   |      | KPYM | KPYM             |              |
| ▲ D812,813                                      |              |              | RB441Q-40<br>HSS104A<br>1SS133<br>HSS104A<br>1SS133                        | DIODE<br>DIODE<br>DIODE<br>DIODE<br>DIODE                             |               |   |      | YM   | YM               |              |
| D819-828<br>D819-828<br>ED801<br>IC801<br>IC802 |              | *            | HSS104A<br>1SS133<br>* 11MT129GNK<br>* MN12510F<br>S-80840ANY              | DIODE<br>DIODE<br>FLUORESCENT INDICATOR TUBE<br>MOS-IC<br>ANALOGUE IC |               |   |      |      |                  |              |
| IC803<br>IC804<br>IC806<br>Q802<br>Q802         |              | *            | XC6202P502TH<br>MN101C51FGA<br>S-80840ANY<br>2SC1740S(Q,R)<br>2SC2785(F,E) | MOS-IC<br>MI-COM IC<br>ANALOGUE IC<br>TRANSISTOR<br>TRANSISTOR        |               |   |      | YM   |                  |              |
| Q803<br>Q803<br>Q804-807<br>Q804-807            |              |              | 2SA1175(F,E)<br>2SA933AS(Q,R)<br>2SC1740S(Q,R)<br>2SC2785(F,E)             | TRANSISTOR<br>TRANSISTOR<br>TRANSISTOR<br>TRANSISTOR                  |               |   |      |      |                  |              |
| A801  |              |              | W02-2759-05  | ELECTRIC CIRCUIT MODULE   |               |   |      |      |                  |              |

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# KRF-V4060D/V5060D/V5560D/VR-605/615

## PARTS LIST

### PCB # vs Model

| MALAYSIA MADE        |    |             |             |             | INDONESIA MADE       |    |             |             |             |
|----------------------|----|-------------|-------------|-------------|----------------------|----|-------------|-------------|-------------|
| <b>KRF-V4060D</b>    | E  | X08-3180-10 | X09-6622-72 | X14-7482-73 | <b>KRF-V4060D</b>    | E  | X08-3160-10 | X09-6602-72 | X14-7472-73 |
| <b>KRF-V4060DE</b>   | E1 | X08-3180-10 | X09-6622-72 | X14-7482-73 | <b>KRF-V4060DE</b>   | E1 | X08-3160-10 | X09-6602-72 | X14-7472-73 |
| <b>KRF-V4060D-S</b>  | E3 | X08-3180-10 | X09-6622-72 | X14-7482-73 | <b>KRF-V4060D-S</b>  | E3 | X08-3160-10 | X09-6602-72 | X14-7472-73 |
| <b>KRF-V4060DE-S</b> | E2 | X08-3180-10 | X09-6622-72 | X14-7482-73 | <b>KRF-V4060DE-S</b> | E2 | X08-3160-10 | X09-6602-72 | X14-7472-73 |
| <b>KRF-V4060D-S</b>  | M  | X08-3180-21 | X09-6620-22 | X14-7480-23 | <b>KRF-V4060D-S</b>  | M  | X08-3160-21 | X09-6600-22 | X14-7470-23 |
| <b>KRF-V4060D-S</b>  | X  | X08-3180-10 | X09-6620-72 | X14-7480-73 | <b>KRF-V4060D-S</b>  | X  | X08-3160-10 | X09-6600-72 | X14-7470-73 |
| <b>KRF-V4060D</b>    | T  | X08-3180-10 | X09-6620-52 | X14-7482-73 | <b>KRF-V4060D</b>    | T  | X08-3160-10 | X09-6600-52 | X14-7472-73 |
| <b>KRF-V4060D-S</b>  | T1 | X08-3180-10 | X09-6620-52 | X14-7482-73 | <b>KRF-V4060D-S</b>  | T1 | X08-3160-10 | X09-6600-52 | X14-7472-73 |
| <b>VR-605</b>        | K  | X08-3180-10 | X09-6620-10 | X14-7480-10 | <b>VR-605</b>        | K  | X08-3160-10 | X09-6600-10 | X14-7470-10 |
| <b>VR-605</b>        | P  | X08-3180-10 | X09-6620-10 | X14-7480-10 | <b>VR-605</b>        | P  | X08-3160-10 | X09-6600-10 | X14-7470-10 |
| <b>KRF-V5060D</b>    | Y  | X08-3180-21 | X09-6622-91 | X14-7480-21 | <b>KRF-V5060D</b>    | Y  | X08-3160-21 | X09-6602-91 | X14-7470-21 |
| <b>KRF-V5060D-S</b>  | M  | X08-3180-21 | X09-6620-21 | X14-7480-21 | <b>KRF-V5060D-S</b>  | M  | X08-3160-21 | X09-6600-21 | X14-7470-21 |
| <b>KRF-V5060D-S</b>  | X  | X08-3180-10 | X09-6620-71 | X14-7480-71 | <b>KRF-V5060D-S</b>  | X  | X08-3160-10 | X09-6600-71 | X14-7470-71 |
| <b>KRF-V5060D</b>    | E  | X08-3180-10 | X09-6622-71 | X14-7482-71 | <b>KRF-V5060D</b>    | E  | X08-3160-10 | X09-6602-71 | X14-7472-71 |
| <b>KRF-V5060D</b>    | T  | X08-3180-10 | X09-6620-51 | X14-7482-71 | <b>KRF-V5060D</b>    | T  | X08-3160-10 | X09-6600-51 | X14-7472-71 |
| <b>KRF-V5060DE</b>   | E1 | X08-3180-10 | X09-6622-71 | X14-7482-71 | <b>KRF-V5060DE</b>   | E1 | X08-3160-10 | X09-6602-71 | X14-7472-71 |
| <b>KRF-V5060D-S</b>  | E3 | X08-3180-10 | X09-6622-71 | X14-7482-71 | <b>KRF-V5060D-S</b>  | E3 | X08-3160-10 | X09-6602-71 | X14-7472-71 |
| <b>KRF-V5060D-S</b>  | T1 | X08-3180-10 | X09-6620-51 | X14-7482-71 | <b>KRF-V5060D-S</b>  | T1 | X08-3160-10 | X09-6600-51 | X14-7472-71 |
| <b>VR-615</b>        | K  | X08-3180-10 | X09-6630-10 | X14-7480-11 | <b>VR-615</b>        | K  | X08-3160-10 | X09-6610-10 | X14-7470-11 |
| <b>VR-615</b>        | P  | X08-3180-10 | X09-6630-10 | X14-7480-11 | <b>VR-615</b>        | P  | X08-3160-10 | X09-6610-10 | X14-7470-11 |
| <b>KRF-V5560D</b>    | Y  | X08-3180-21 | X09-6632-91 | X14-7480-22 | <b>KRF-V5560D</b>    | Y  | X08-3160-21 | X09-6612-91 | X14-7470-22 |
| <b>KRF-V5560D-S</b>  | M  | X08-3180-21 | X09-6630-21 | X14-7480-22 | <b>KRF-V5560D-S</b>  | M  | X08-3160-21 | X09-6610-21 | X14-7470-22 |
| <b>KRF-V5560D-S</b>  | X  | X08-3180-10 | X09-6630-71 | X14-7480-72 | <b>KRF-V5560D-S</b>  | X  | X08-3160-10 | X09-6610-71 | X14-7470-72 |
| <b>KRF-V5560D</b>    | E  | X08-3180-10 | X09-6632-71 | X14-7482-72 | <b>KRF-V5560D</b>    | E  | X08-3160-10 | X09-6612-71 | X14-7472-72 |
| <b>KRF-V5560D-S</b>  | E3 | X08-3180-10 | X09-6632-71 | X14-7482-72 | <b>KRF-V5560D-S</b>  | E3 | X08-3160-10 | X09-6612-71 | X14-7472-72 |
| <b>KRF-V5560D-S</b>  | T1 | X08-3180-10 | X09-6630-51 | X14-7482-72 | <b>KRF-V5560D-S</b>  | T1 | X08-3160-10 | X09-6610-51 | X14-7472-72 |
| <b>KRF-V5560D-S</b>  | H  | X08-3180-10 | X09-6634-11 | X14-7482-72 | <b>KRF-V5560D-S</b>  | H  | X08-3160-10 | X09-6614-11 | X14-7472-72 |

### HOW TO READ THE PARTS LIST

### ABBREVIATION OF MODEL AND MASS PRODUCTION'S DESTINATIONS

| MODEL                | ABB. | Australia | Canada   | China  | England     | Europe   | Germany | Korea      | Malaysia |
|----------------------|------|-----------|----------|--------|-------------|----------|---------|------------|----------|
| <b>KRF-V4060D</b>    | 4    | -         | -        | -      | T           | E        | -       | -          | -        |
| <b>KRF-V4060DE</b>   | 4    | -         | -        | -      |             | E1       | -       | -          | -        |
| <b>KRF-V4060DE-S</b> | 4    | -         | -        | -      |             | E2       | -       | -          | -        |
| <b>KRF-V4060D-S</b>  | 4    | X         | -        | -      | T1          | E3       | -       | -          | -        |
| <b>KRF-V5060D</b>    | 5    | -         | -        | -      | T           | E        | -       | -          | -        |
| <b>KRF-V5060DE</b>   | 5    | -         | -        | -      | -           | E1       | -       | -          | -        |
| <b>KRF-V5060D-S</b>  | 5    | X         | -        | -      | T1          | E3       | -       | -          | -        |
| <b>VR-605</b>        | 5    | -         | P        | -      | -           | -        | -       | -          | -        |
| <b>KRF-V5560D</b>    | 6    | -         | -        | -      | -           | E        | -       | -          | -        |
| <b>KRF-V5560D-S</b>  | 6    | X         | -        | -      | T1          | E3       | -       | H          | -        |
| <b>VR-615</b>        | 6    | -         | P        | -      | -           | -        | -       | -          | -        |
| MODEL                | ABB. | Mexico    | PX/AAFES | Russia | Scandinavia | Shanghai | USA     | Other area |          |
| <b>KRF-V4060D</b>    | 4    | -         | -        | -      | -           | -        | -       | -          | -        |
| <b>KRF-V4060DE</b>   | 4    | -         | -        | -      | -           | -        | -       | -          | -        |
| <b>KRF-V4060DE-S</b> | 4    | -         | -        | -      | -           | -        | -       | -          | -        |
| <b>KRF-V4060D-S</b>  | 4    | -         | -        | -      | -           | -        | -       | M          | -        |
| <b>KRF-V5060D</b>    | 5    | -         | Y        | -      | -           | -        | -       | -          | -        |
| <b>KRF-V5060DE</b>   | 5    | -         | -        | -      | -           | -        | -       | -          | -        |
| <b>KRF-V5060D-S</b>  | 5    | -         | -        | -      | -           | -        | -       | M          | -        |
| <b>VR-605</b>        | 5    | -         | -        | -      | -           | -        | K       | -          | -        |
| <b>KRF-V5560D</b>    | 6    | -         | Y        | -      | -           | -        | -       | -          | -        |
| <b>KRF-V5560D-S</b>  | 6    | -         | -        | -      | -           | -        | -       | M          | -        |
| <b>VR-615</b>        | 6    | -         | -        | -      | -           | -        | K       | -          | -        |

**SPECIFICATIONS*****For the U.S.A and Canada***  
**AUDIO section (VR-605/615)**

Rated power output during STEREO operation

100 watts per channel minimum RMS, both channels driven, at 8Ω from 40 Hz to 20 kHz with no more than 0.7% total harmonic distortion. (FTC)

|   |                                |
|---|--------------------------------|
| Effective power output during SURROUND operation                    |                                |
| FRONT (40 ~ 20 kHz, 0.7% T.H.D. at 8Ω one channel driven)           | 100 W + 100 W                  |
| CENTER (40 ~ 20 kHz, 0.7% T.H.D. at 8Ω one channel driven)          | 100 W                          |
| SURROUND (40 ~ 20 kHz, 0.7% T.H.D. at 8Ω one channel driven)        | 100 W + 100 W                  |
| SUBWOOFER (80 Hz, 0.7% T.H.D. at 8Ω one channel driven)<br>(VR-615) | 100 W                          |
| Total harmonic distortion   | 0.05% (1 kHz, 50 W, 8Ω)        |
| Frequency response  |                                |
| CD  | 20 Hz ~ 70 kHz, +0 dB, -3.0 dB |
| Signal to noise ratio (IHF'66)                                      |                                |
| CD  | 95 dB                          |
| Input sensitivity / impedance                                       |                                |
| CD  | 550 mV / 47 kΩ                 |
| DVD/6CH INPUT (VR-615)  | 550 mV / 47 kΩ                 |
| Output level / impedance  |                                |
| TAPE REC  | 550 mV / 1 kΩ                  |
| PRE OUT (SUBWOOFER) (VR-605)  | 1.5 V / 2.2 kΩ                 |
| Tone control  |                                |
| BASS  | ±10 dB (at 100 Hz)             |
| TREBLE  | ±10 dB (at 10 kHz)             |
| Loudness control  |                                |
| VOLUME at -30dB level   | +8 dB (at 100 Hz)              |

***For other countries*****AUDIO section (KRF-V5060D/V5560D)**

Rated power output during STEREO operation

100 watts per channel minimum RMS, both channels driven, at 8Ω from 40 Hz to 20 kHz with no more than 0.7% total harmonic distortion. (FTC)

|   |                                |
|---|--------------------------------|
| Effective power output during SURROUND operation                        |                                |
| FRONT (1 kHz, 0.7% T.H.D. at 8Ω one channel driven)                     | 100 W + 100 W                  |
| CENTER (1 kHz, 0.7% T.H.D. at 8Ω one channel driven)                    | 100 W                          |
| SURROUND (1 kHz, 0.7% T.H.D. at 8Ω one channel driven)                  | 100 W + 100 W                  |
| SUBWOOFER (80 Hz, 0.7% T.H.D. at 8Ω one channel driven)<br>(KRF-V5560D) | 100 W                          |
| Total harmonic distortion   | 0.05% (1 kHz, 50 W, 8Ω)        |
| Frequency response  |                                |
| CD  | 20 Hz ~ 70 kHz, +0 dB, -3.0 dB |
| Signal to noise ratio (IHF'66)  |                                |
| CD, TUNER, AUX, TAPE  | 95 dB                          |
| Input sensitivity / impedance   |                                |
| CD  | 550 mV / 47 kΩ                 |
| DVD/6CH INPUT (KRF-V5060D)  | 550 mV / 10 kΩ                 |
| Output level / impedance  |                                |
| TAPE REC  | 550 mV / 1 kΩ                  |
| PRE OUT (SUBWOOFER) (KRF-V5060D)  | 1.5 V / 2.2 kΩ                 |
| Tone control  |                                |
| BASS  | ±10 dB (at 100 Hz)             |
| TREBLE  | ±10 dB (at 10 kHz)             |
| Loudness control  |                                |
| VOLUME at -30dB level   | +8 dB (at 100 Hz)              |

**AUDIO section (KRF-V4060D)**

Effective power output during STEREO operation

1 kHz, 0.7% T.H.D., at 8 Ω ..... 50 W + 50 W

Rated power output during STEREO operation

40 watts per channel minimum RMS, both channels driven, at 8Ω from 40 Hz to 20 kHz with no more than 0.7% total harmonic distortion. (FTC)

|  |             |
|--|-------------|
| Effective power output during SURROUND operation     |             |
| FRONT (1 kHz, 0.7% T.H.D. at 8Ω one channel driven)  | 50 W + 50 W |
| CENTER (1 kHz, 0.7% T.H.D. at 8Ω one channel driven) | 50 W        |

SURROUND (1 kHz, 0.7% T.H.D. at 8Ω one channel driven) ..... 50 W + 50 W

Total harmonic distortion ..... 0.15% (1 kHz, 20 W, 8Ω)

Frequency response

CD ..... 20 Hz ~ 70 kHz, +0 dB, -3.0 dB

Signal to noise ratio (IHF'66)

CD, TUNER, AUX, TAPE ..... 95 dB

Input sensitivity / impedance

CD ..... 400 mV / 47 kΩ

Output level / impedance

TAPE REC ..... 400 mV / 1 kΩ

PRE OUT (SUBWOOFER) ..... 1.5 V / 2.2 kΩ

Tone control

BASS ..... ±10 dB (at 70 Hz)

TREBLE ..... ±10 dB (at 10 kHz)

Loudness control

VOLUME at -30dB level ..... +8 dB (at 100 Hz)

**DIGITAL AUDIO section**

Sampling frequency ..... 32 kHz, 44.1 kHz, 48 kHz, 96 kHz

Input level / impedance / wave length

Optical ..... (-15 dBm ~ -21 dBm), 660 nm ±30 nm

Coaxial ..... 0.5 Vp-p / 75 Ω

**VIDEO section**

VIDEO inputs / outputs

VIDEO (composite) ..... 1 Vp-p / 75 Ω

**FM tuner section**

Tuning frequency range ..... 87.5 MHz ~ 108.0 MHz

Usable sensitivity (MONO)

VR-605/615

..... 1.3 μV (75 Ω)/ 13.2 dBf (75 kHz DEV., SINAD 30 dB)

KRF-V5060D/V4060D/V5560D

..... 1.6 μV (75 Ω)/ 15.2 dBf (75 kHz DEV., SINAD 30 dB)

50dB quieting sensitivity

STEREO ..... 28 μV (75 Ω)/ 40.2 dBf

Total harmonic distortion (1 kHz)

MONO ..... 0.5% (71.2 dBf input)

STEREO ..... 0.7% (71.2 dBf input)

Signal to noise ratio (1 kHz, 75 kHz DEV.)

MONO ..... 75 dB (71.2 dBf input)

STEREO ..... 68 dB (71.2 dBf input)

Stereo separation (1 kHz) ..... 40 dB

Selectivity (±400 kHz) VR-605/615 ..... 70 dB

KRF-V5060D/V4060D/V5560D ..... 50 dB

Frequency response ..... (30 Hz ~ 15kHz), +0.5 dB, -3.0 dB

**AM tuner section**

Tuning frequency range

10 kHz step (VR-605/615) ..... 530 kHz ~ 1,700 kHz

10 kHz step (KRF-V5060D/V4060D/V5560D) ..... 530 kHz ~ 1,610 kHz

9 kHz step (KRF-V5060D/V4060D/V5560D) ..... 531 kHz ~ 1,602 kHz

Usable sensitivity (30% mod., S/N 20dB) (VR-605/615)

..... 16 μV / (600 μV/m)

Usable sensitivity (KRF-V5060D/V5560D/V4060D)

..... 16 μV / (600 μV/m)

Signal to noise ratio (30% mod. 1 mV input) ..... 50 dB

**GENERAL**

Power consumption VR-605/615 ..... 2.2 A

KRF-V5060D/V5560D ..... 280W

KRF-V4060D ..... 200W

AC outlet

SWITCHED

VR-605/615 ..... (total 150 W, 1.25 A max.)

KRF-V5060D/V4060D/V5560D ..... (total 90 W max.)

Dimensions ..... W : 440 mm (17-5/16")

H : 143 mm (5-5/8")

D : 303 mm (11-15/16")

Weight (Net)

VR-605/615 ..... 7.7 kg (17.00 lb)

KRF-V5060D/V5560D ..... 8.8 kg (19.40 lb)

KRF-V4060D ..... 7.9 kg (17.41 lb)

# KRF-V4060D/V5060D/V5560D/VR-605/615

## SPECIFICATIONS

### For the U.K and Europe

#### AUDIO section (KRF-V5060D)

|   |                                |
|---|--------------------------------|
| Rated power output during STEREO operation<br>DIN/IEC (63 Hz ~ 12.5 kHz, 0.7% T.H.D., at 6Ω)            | 100 W + 100 W                  |
| Effective power output during SURROUND operation<br>FRONT (1 kHz, 0.7% T.H.D. at 6Ω one channel driven) | 100 W + 100 W                  |
| CENTER (1 kHz, 0.7% T.H.D. at 6Ω one channel driven)  | 100 W                          |
| SURROUND (1 kHz, 0.7% T.H.D. at 6Ω one channel driven)  | 100 W + 100 W                  |
| Total harmonic distortion   | 0.05% (1kHz, 50 W, 6Ω)         |
| Frequency response (IHF'66)<br>CD   | 20 Hz ~ 70 kHz, +0 dB, -3.0 dB |
| Signal to noise ratio (IHF'66)<br>PHONO (MM)  | 74 dB                          |
| CD  | 95 dB                          |
| Input sensitivity / impedance<br>PHONO (MM)   | 6.0 mV / 27 kΩ                 |
| CD  | 500 mV / 47 kΩ                 |
| DVD/6CH INPUT   | 500 mV / 47 kΩ                 |
| Output level / impedance<br>TAPE REC  | 500 mV / 1 kΩ                  |
| PRE OUT (SUBWOOFER)   | 1.5 V / 2.2 kΩ                 |
| Tone control<br>BASS  | ±10 dB (at 100 Hz)             |
| TREBLE  | ±10 dB (at 10 kHz)             |
| Loudness control<br>VOLUME at -30dB level   | +8 dB (at 100 Hz)              |

#### AUDIO section (KRF-V4060D)

|   |                                |
|---|--------------------------------|
| Rated power output during STEREO operation<br>(DIN 1 kHz 0.7% T.H.D., at 6Ω)                            | 50 W + 50 W                    |
| Effective power output during SURROUND operation<br>FRONT (1 kHz, 0.7% T.H.D. at 6Ω one channel driven) | 50 W + 50 W                    |
| CENTER (1 kHz, 0.7% T.H.D. at 6Ω one channel driven)  | 50 W                           |
| SURROUND (1 kHz, 0.7% T.H.D. at 6Ω one channel driven)  | 50 W + 50 W                    |
| Total harmonic distortion   | 0.15% (1 kHz, 20 W, 6Ω)        |
| Frequency response (IHF'66)<br>CD   | 20 Hz ~ 70 kHz, +0 dB, -3.0 dB |
| Signal to noise ratio (IHF'66)<br>CD  | 95 dB                          |
| Input sensitivity / impedance<br>CD   | 400 mV / 47 kΩ                 |
| Output level / impedance<br>TAPE REC  | 400 mV / 1 kΩ                  |
| PRE OUT (SUBWOOFER)   | 1.5 V / 2.2 kΩ                 |

#### Notes

1. KENWOOD follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.
2. The full performance may not be exhibited in an extremely cold location (under a water-freezing temperature).

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|   |                    |
|---|--------------------|
| Tone control<br>BASS                      | ±10 dB (at 100 Hz) |
| TREBLE                                    | ±10 dB (at 10 kHz) |
| Loudness control<br>VOLUME at -30dB level | +8 dB (at 100 Hz)  |

#### DIGITAL AUDIO section

|  |                                   |
|--|-----------------------------------|
| Sampling frequency                               | 32 kHz, 44.1 kHz, 48 kHz, 96kHz   |
| Input level / impedance / wave length<br>Optical | (-15 dBm ~ -21 dBm), 660 nm ±30nm |
| Coaxial  | 0.5 Vp-p / 75 Ω                   |

#### VIDEO section

|   |               |
|---|---------------|
| VIDEO inputs / outputs<br>VIDEO (composite) | 1 Vp-p / 75 Ω |
|---|---------------|

#### FM tuner section

|                                  |   |
|----------------------------------|---|
| Tuning frequency range           | 87.5 MHz ~ 108.0 MHz  |
| Usable sensitivity (DIN at 75 Ω) | MONO ..... 1.3 μV / 13.2 dBf (40 kHz DEV., S/N 26 dB)<br>STEREO ..... 45 μV / 42.1 dBf (46 kHz DEV., S/N 46 dB) |

|                                   |  |
|-----------------------------------|--|
| Total harmonic distortion (1 kHz) | MONO ..... 0.2% (71.2 dBf input)<br>STEREO ..... 0.8% (71.2 dBf input) |
|-----------------------------------|--|

|                                      |  |
|--------------------------------------|--|
| Signal to noise ratio (DIN weighted) | MONO ..... 65 dB (40 kHz DEV. 71.2 dBf input)<br>STEREO ..... 60 dB (46 kHz DEV. 71.2 dBf input) |
| Stereo separation (DIN 1 kHz)        | ..... 36 dB  |
| Selectivity (DIN ±300 kHz)           | ..... 64 dB  |
| Frequency response                   | ..... (30 Hz ~ 15 kHz), +0.5 dB, -3.0 dB   |

#### AM tuner section

|   |                     |
|---|---------------------|
| Tuning frequency range                      | 531 kHz ~ 1,602 kHz |
| Usable sensitivity                          | 16 μV / (600 μV/m)  |
| Signal to noise ratio (30% mod. 1 mV input) | 50 dB               |

#### GENERAL

|                                 |  |
|---------------------------------|--|
| Power consumption<br>KRF-V5060D | 280W                                   |
| KRF-V4060D                      | 200W                                   |
| AC outlet<br>SWITCHED           | ..... (total 90 W max.)                |
| Dimensions                      | W : 440 mm<br>H : 143 mm<br>D : 303 mm |
| Weight (Net)                    | ..... 7.8 kg                           |

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